Gabriel Perry – Software Engineer
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SUMMARY

Software Engineer living in Boulder, Colorado with 17+ years of experience in software development in multiple environments with a focus on web technologies. Strong analytic and problem-solving skills, self-motivated, detail-oriented, creative, open-minded, and friendly. Writing maintainable, readable, and well-documented code is a passion.

PROFESSIONAL EXPERIENCE

VCA Animal Hospitals, Westminster, CO, (9/2018 – Present)
Software Engineer - Camp Bow Wow

Software development using Angular/Typescript for Camp Bow Wow, a leading doggy daycare and boarding franchise with 150+ locations across the United States.

Technologies Used: Typescript, Angular 6/7/8/9, NgRx, RxJS, Jasmine, Karma, Angular Flex Layout, Angular Material, CSS/Sass. *Dev Platform:* MacBook Pro, Linux. *Tools:* PhpStorm, WebStorm, Chrome, Git, Bitbucket, Sourcetree, Insomnia, MySQL Workbench, and Jira.

- New feature and maintenance development in a highly collaborative, fast paced, agile environment.
- Significant system refactorizations and improvements: Payments, Invoices, Reports, internal libraries/utilities.
- Massive endpoint/API integrations/updates in support of significant database and endpoint/API upgrades. Removing NgRx layer and replacing it with direct backend API calls.
- Advocated for the overall improvement of code quality, development processes and (written) communication for the Frontend team.
  - Designed a Typescript and Angular programming style-guide which was adopted by the Frontend development team.
  - Advocated for and helped the team adopt regular code-reviews using Bitbucket.
  - Encouraged the team to write more unit tests, especially for the tricky parts of the code.
  - Worked with management to help refine their Agile/Scrum development life-cycle.
  - Encouraged dev team to be more disciplined regarding code and process documentation as well as design specs/artifacts.
  - Encouraged team to be better with their Jira and written communication: Tickets included proper specs, acceptance criteria, testing tips, etc.

Allscripts, Broomfield, CO (2/2018 – 6/2018)
Contract Software Engineer – Ambulatory Care (EIS)

Software development for Allscripts' Ambulatory Care (EIS) division. Development of an Electronic Health Records system called Paragon Clinician Hub (PCH). My work focused on a subset of PCH called Clinical Documentation or "Clin Doc", an app that helps doctors and clinicians take notes using specialized widgets called Observables when evaluating and assessing patients.

Main Technologies Used: JavaScript, JQuery, RequireJS, Kendo UI and Sass/CSS. Development in a Windows environment using Microsoft's Visual Studio, TFS (Team Foundation Server), IIS Express and WebStorm.

Staples, Broomfield, CO (5/2017 – 11/2017)
Contract Software Engineer – Identity Management

Software development for Staples' Identity Management group. Main focus was developing a middleware layer between an Angular frontend and a Java Microservices backend for a portion of their Staples.com domain using TypeScript, Jasmine and the Express framework.

I worked closely with a team of IdM backend Java developers and helped them get up to speed with Typescript, Node and the WebStorm IDE. I was also a strong advocate for Agile development processes (and testing) and consistently encouraged my team to apply more engineering discipline to their everyday development tasks, code-reviews and planning activities.

Main Technologies Used: TypeScript/JavaScript, Node.js, npm, Express, Angular 4, Angular CLI, Jasmine (testing), Java (Spring Boot) Microservices (Netflix OSS), Postman, Swagger, JIRA, Git, BitBucket, Jenkins (CI/CD), and WebStorm.

Trimble, Inc. – SketchUp, Boulder, CO (2/2013 – 11/2016)
Software Engineer III - 3D Warehouse

Extensive feature and maintenance frontend development for SketchUp's 3D Warehouse using JavaScript and Google Closure Tools. Built numerous GUI components with extensive API calls to the warehouse backend, DOM manipulation/creation tasks, etc.

Middleware development as well, which supported an API-call simulation layer which was instrumental when first developing the new 3D Warehouse when we didn't have a backend! Extensive unit-test coverage/development. Also, provided mentorship to new hires and junior developers.

Project Highlights:
- Designed and implemented a Search Results component with support for:
  - Query formulation, result-set and query management, advanced user navigation events, infinite-scroll, pagination and film-strips.
- Widget/component and new feature development:
  - Advanced Search page, a Catalog Browser feature, Advanced Search keyword operator support, a SearchBar widget, a SearchSaver Utility, a Site Header widget, and many other features too.
- Internationalization: string extractor/injector utility built in Python. Tool was used by all SketchUp development groups: SketchUp app, Layout, 3D Warehouse, Extensibility, etc.

Other Technologies Used: JsUnit, HTML, CSS/Sass, Soy Templates, Knockout.js (light), Python, PyCharm, Git, SourceTree, Rietveld (for code reviews), and JIRA.

Convertis Marketing, LLC - Gunbarrel, CO (10/2008 – 1/2013)
Business Applications Developer

Application/web development, database administration, configuration/build management, and 24/7 production support for Boulder-based Internet marketing company that sold vanity products online.

Supported a Java based e-commerce system called "SoftSlate" which was comprised of Java, JSP, Struts (w/Tiles) and Hibernate. Responsible for maintenance and new feature development of this online ordering system: client-facing and site administrator pages.

Main Technologies Used: Java, Struts 1.2.8, Hibernate 3.1, JSPs, JUnit, JavaScript, Apache HTTP Server, Tomcat (5.5.35), MySQL, SQLyog, ANT, SVN, bash shell scripting, Linux, and the IntelliJ IDE.

- Supported six (6) production servers and nineteen (19) SoftSlate instances/websites/databases and one (1) "dev" server/database.
- Integrated new SoftSlate instances/builds with Convertis' "Central" app server (a Spring Batch application) which consolidated data from all SoftSlate instances into one main database.
- Admin development for the SoftSlate e-commerce system.
  - Full CRUD development – Hibernate queries/mappings
  - MySQL scripting and database administration (schema updates) for all SoftSlate instances/stores
- Server configuration: Tomcat, Apache, openssl, SSL certs, etc.
- Server administration: SoftSlate store setup, deployments, build management, etc.
- Developed internal wiki: Thoroughly documented company procedures, technical HOW-TO's, developer insights, etc.
- Order-flow fine tuning/customizations, Campaign layout A/B split-testing, campaign configuration tools/settings, etc.

Crispin, Porter + Bogusky - Boulder, CO (4/2008 - 10/2008)
TextureMedia, Inc. - Boulder, CO (10/2006 - 4/2008)
Application Developer

Application and web development for Boulder interactive agency for 1.5 years at **TextureMedia** and then 6 months for **Crispin, Porter, + Bogusky**. TextureMedia was acquired by CP+B circa April 2008.

Job Highlights:

- Worked closely with interface developers, account managers, tech leads, and other application developers daily in **all aspects of the development life-cycle**.
- Built **web-based administrative tools** for numerous client sites. All admins included (in some form) custom database queries, search results configuration and standard CRUD operations.
- Utilized Texture's main in-house proprietary Java action-based MVC-like framework called "Slingshot" for web development. Worked in many different versions of Slingshot depending on client needs.

Technologies Used: Java, Hibernate (light), JCatapult/Slingshot (2 in-house proprietary Java web development platforms), JSP/HTML, JavaScript, JSON, Cactus/JUnit, POI-HSSF, MySQL, SQLyog, perl, MS-Excel, Tomcat 5.x, ANT, Maven, CVS, and Subversion (SVN) on Windows.

DigitalGlobe - Longmont, CO (2/2004 - 6/2006)
Software Engineer

New feature and maintenance development using a test-driven development approach for DG's **Customer Front End** team and **Geospatial Commercial Operations** group using Java, JSPs, JSTL, Struts, JavaScript, JUnit, JSUnit and HttpUnit.

DigitalGlobe experience continued…

Project Highlights:

- **BrowseTool**: Wrote extensive frontend and backend code to enable DG Service Reps to define spatial geometries (box-maker, circle-maker, corner-coords, direct coordinate entry) for customer order polygons.
- **Location Desktop:** Extensive GIS spatial services development.
    - Geometry Validation Services - Supported formats: GML, Lat-Lon coordinate data, WKT (Well-known-text).
    - Geolocation Services - Country codes derivation based on one or more specified spatial geometries.
- **PP Stats:** Designed and implemented a statistical reporting system for DG's Product Processors (PPs) using perl (heavy pattern matching and regex work) and cron scheduling.
- **WAN Ingest:** Designed and implemented a standalone Java app used to ingest raw satellite imagery from RGTs (Remote Ground Terminals) to DG's image archive.

Other Technologies Used: XML (XSD, XSL, JDOM, GML, XHTML), EJBs (Stateless Session Beans, MDBs, XDoclet), App Servers: OAS, OC4J & JBOSS, Oracle Spatial, JTS (Java Topology Suite), SonicMQ, perl, bash & korn shell scripting, Redhat Linux, IntelliJ.

Time Warner's Interactive Video Group (MystroTV)
Westminster, CO (7/2003 – 11/2003)
Software Engineer

Refactored the server team's build system using Java, Ant, RPM, and bash shell scripting within a UNIX environment (Linux and Solaris).

- Developed system tools and a component versioning system for the Mystro App Server using Java.
    - Automated the server release build process which cut the procedure's run-time down from an hour to ~10 minutes.
- Provided technical support to test engineers and technical writers regarding the installation, configuration, and documentation of the Mystro App Server. Authored an internal installation guide for said App Server.

TECHNICAL SUMMARY

Technologies I use and have used over the years listed in no particular order:

- **Programming Languages:** Java, Python, C, C++, perl, FORTRAN 77, RPG, Pascal, COBOL
- **Presentation/Browser Technologies:** JavaScript, ES6, TypeScript, Google Closure, React, JSX, Angular 6-9, Express, Knockout.js, JQuery, JSON, XML, CSS, Sass, HTML, XHTML, JSPs, Java Servlets
- **Testing:** Jasmine, Karma, Selenium, JUnit, JsUnit, HttpClient, Cactus

Technical Summary continued…

- **MVC Frameworks:** Struts (v1, v2), SlingShot, JCatapult
- **Database:** Couchbase, MongoDB, Hibernate, SQL, MySQL, SQL*Plus, SQuireL, Oracle (CASE Methodology for DB Design), Sybase, PostGreSQL, MS-Access
- **Editors/IDEs:** WebStorm, PyCharm, IntelliJ, STS, Eclipse, Visual Studio 2017, slickEdit, jEdit, Borland C++ (v5.02), MS-Visual C++ (v5)
- **Source Control:** Git, BitBucket, GitHub, SourceTree, SVN, TFS, CVS, Perforce, CMSynergy
- **openssl:** SSL certificate installation and some Apache configuration (light)
- **Operating Systems:** Mac, Windows, Cygwin, Unix (Linux, Solaris), AS/400
- **UNIX Scripting Languages and Utils:** bash, korn, t/csh
- **Build Utils:** create-react-app, Angular CLI, Babel compiler, webpack (bundler), ANT, Maven, Savant, RPM (Red Hat Package Manager)
- **Numerical Computing:** MatLab, Mathematica
- **GNU:** gcc, gdb, make, vi, vim, gvim, emacs
- **GIS:** Oracle Spatial, Grass, ArcInfo

EDUCATION

- **B.S., Computer Science, 2003** - University of Colorado at Boulder
- **B.A., Psychology, 1997** - Naropa University - Boulder, CO
- Berklee College of Music, 1991-92 - Boston, MA

PERSONAL

- Played guitar with various bands and local musicians over the years with occasional performances and recording projects.
- Teach private guitar lessons on/off since 1995. Teach various styles and levels of playing.
- Maintain a personal website, www.flupe.com, for fun. Topics include: music, guitar playing, and software development.
- Wrote a lesson series about **music theory** and **improvisation** for guitar players.
- I continue to write and record original guitar music and songs. Some of my material can be found here: soundcloud.com/gabrielperry and here: soundcloud.com/neptuniansunrise

References available upon request.

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