Mark Dickson

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SUMMARY

An exceptionally productive problem solver with an extremely wide range of skills, currently seeking a software development position that can keep an extremely active person busy. Positions should be in the Central Ohio area or allow for remote work.

EXPERIENCE

Consultant, Senior Software Developer, Fuse by Cardinal Health
Dublin, Ohio — Nov 2015-current (2 years, 10 months and counting, concurrent with other roles)

Excelled in a development environment following Agile and Kanban methodologies. Developed software for the pharmacy segment. Used Java, Spring, ELK (ElasticSearch, Logstash, Kibana), Ember, Docker, Apache Cassandra. Consistently delivered software within specified deadlines. Consistently produced at the top of a very talented segment of developers. Developed and maintained applications that are in production and experiencing high growth.

Consultant, Senior Mobile Architect, Utility Meter Reader
Dublin, Ohio — Oct 2017-current (11 months and counting, concurrent with other roles)

Drove improvements to the existing Android applications, while designing mobile and web service architectures for improved scale. Managed many variant delivery pipelines. Dealt directly with customers and partners to resolve questions and receive input. Championed test-driven development and heavily developed Espresso-driven automated end-to-end testing to validate variants. Made heavy use of OpenCV for image processing. Employed Tesseract for OCR, and Tensorflow for machine learning. Breakthroughs often involve reading academic papers.

Senior Architect, Bounding Box Limited
Dublin/Powell, Ohio — Mar 2015-current (3 years, 8 months and counting, concurrent with other roles)

Executed small contracts as a self-employed contractor across various industries: utilities, medical, defense, roofing, entertainment, telecommunications, product cataloging, food service, home automation, and hospitality.

Consultant, Senior Software Architect, Frontier Communications
Remote — Mar 2015-Sep 2016 (1 year, 6 months, concurrent with other roles)

Served as Software Architect on a project to rewrite Frontier Communication's order management system with the goal of modernizing and streamlining the order-taking process for new, as well as existing, customers. Used MEAN stack with Typescript (Mongo, Express, Angular, and Node). Project timeline was incredibly fast-paced and busy, with 7 days per week typically worked. This project involved integration with existing Frontier systems and Sigma's CPQ, as well as working with numerous remote teams. Led the development of a complex promotions engine, and served as customer-facing development manager for team work intake and customer feedback.

Astute Solutions, Software Engineer III
Columbus, Ohio — 2013-Mar 2015 (2 years)

Designed and single-handedly developed a Node web service and site for managing commercial product audits for a Fortune Global 500 client. The product was anticipated to operate in 155+ countries. Product revenue exceeded $1M.

Single-handedly developed a Node web service and responsive site, along with a mobile app on iOS and Android. The system is currently in a pilot with two Fortune 100 companies. The service uses MongoDB and SOLR for data storage and search indexing.

Improved and maintained a C# service (SRM) dedicated to monitoring social networking sites on behalf of corporate customers. This work included integration with Facebook, Google+, Twitter, and Pinterest APIs.

Won 1ˢᵗ place honors in Astute's May 2013 hackathon (during second week of employment) with a project that ported our social monitoring functionality to iOS.

Built additional functionality into Astute's SRM frontend using Javascript, JQuery, and Twitter Bootstrap. Operated in an Agile environment.

Worked on team to finish C#-built Windows services (and installers) that were started by offshore developers.

Inventrio, Software Engineer
Dublin, Ohio — *2011-2013* (2 years, 3 months), leaving to avoid relocation

Served as jack-of-all-trades, with a large focus on developing cutting edge portal applications with a sophisticated Google Web Toolkit (GWT) MVP infrastructure. Mastered use of Liferay for portal deployment.

Applied Javascript for rendering animated graphics on HTML canvases in compliance with HTML5 standards. Built numerous prototype web applications. Worked on tight schedules. Developed and maintained portals for both clients and administrators for Vitality brand products using Liferay and Google Web Toolkit (GWT). Developed reusable GWT widgets as well as components for asynchronous model event handling and client-side caching.

Built and maintained multiple web services with REST interfaces using JAX-WS, JAX-RS, and CXF. Employed Hibernate and MySQL for persistence, with Spring for dependency injection. Applied JAXB/XML for bean generation from schemas. Used Apache ServiceMix as service integration container, and Apache Tomcat as servlet container. Wrote numerous integration and system tests to be run in a PAX environment. Developed and maintained a NantLife Web Service to coordinate Nant/Boston Life Labs device sources with readings within our HealthGrid. Expanded HealthScore Web Service to streamline enrollment.

Conducted technical presentations at Tech Breakfast talks (ImpactJS and Node/Node.js).

DSCI Inc, Software Engineer
Columbus, Ohio — *2006-2011* (5 years, 1 month), left to avoid relocation

Specialized in development and testing of Java and C++ messaging software for use in the Aerospace and Defense industry. Developed applications for desktop platforms and the Android platform. Produced a game-like training tool using the Torque3D Game Engine.

Explored a wide variety of challenging topics, including 3D graphics, georeferencing, mapping, graphical interface development, mobile development, game development, networking, and more. Thrived in rapid development environments, as well as paced, process-driven situations.

Made considerable contributions to DSCI's products. Worked on DSCI's SPIDRE application, initially built using Java, and later ran on both desktop and mobile platforms. The desktop application had a Swing front-end. The application is a message redirection and mediation mechanism.

Developed the SA Translator, an application that converts simulation web traffic to real-world defense web traffic. It is currently used across the nation at various military and civilian installations within the simulations industry.

Partnered with IBM to create the Virtual Convention (V-Con) software. I was on the team that produced the initial demonstration. My work at DSCI included many more pieces of visualization tools, including a 3D Image Generator (VISION), and scenario playback tools for scripting and planning simulations.

In addition, we developed the RBCI (Radio-Based Communication Interface), which was employed to map and test various radios and emitter entities in a Defense role.

SKILLS
- Web:
  - **Node.js**, **Angular**, **Vue.js, React,** Ember, Knockout
  - HTML5, **CSS**, jQuery, Bootstrap, Semantic UI, Material, D3, Flot, Flotr, Canvas, Highcharts, Google Maps API
  - XML, JSON, HTTP/HTTPS, Web Sockets,
  - Testing frameworks and tools: Karma, Jasmine, Mocha, Protractor
  - Google Analytics, Piwik, Ad frameworks, SEO, Google Adwords
- Languages:
  - Javascript, Typescript, Go ("Golang"), Java (J2E/JEE), Kotlin, Scala, Python, C#, C/C++, Lua, Objective C, VB, CoffeeScript
- Java:
  - Spring, Spring MVC, Portlets, JAXB, JSP, JUnit, Mockito, Swing, AWT, JDBC
- Persistence:
  - MySQL, Postgres, MongoDB, ElasticSearch, SQLite, MS SQL Server, Redis, SOLR, LINQ, Lucene, SQL, Cassandra, NoSQL, Hibernate, JPA
- Mobile:
  - Android, Cordova/PhoneGap, Ionic, iOS, Ejecta, CocoonJS
- Systems
  - Linux (many flavors), Unix, Docker, MacOS, Windows, VMWare
- Supporting technologies, etc:
  - Npm, Yarn, Bower, Jetty, Apache ServiceMix, Apache Tomcat, Selenium
  - Jenkins, Concourse, Maven, Ant, CVS, SVN, Git, VMWare, Eclipse, XCode, ImpactJS, Box2D, Phaser, Webstorm
- Miscellaneous
  - Tesseract, Agile, NW.js, Electron, Home Automation, JIRA, TestFlight, Copyright filing, Trademark filing, AWS, MWS.

EDUCATION
The Ohio State University

B.S.C.S.E. (Bachelors: Computer Science, Engineering) — Summer 2003-Summer 2006 (3 years)

ADDITIONAL INFORMATION
Personal Projects:
- **Google Play Apps**
  - Barcode Price Compare: an extremely simple (and under construction) Ionic app to make it easier to showroom at brick and mortar stores. 113,000+ total installs (August 28, 2018) (above the 75th percentile for Google Play). Currently enhancing price collection service before integrating into app.
  - Mileage Tracker: an extremely simple Ionic app to make it easy to track mileage for tax or reimbursement purposes. 14,000+ total installs (August 28, 2018)
  - Timesheet and Invoice: Ionic time tracker app with timesheet and invoice generation. 1,100+ total installs (August 28, 2018)
- **Open Source**
  - Released Node.js Wink API for home automation. Has had over 25,000 installed (August 28, 2018)
  - Some contributions to open source projects: MWS Node module, and SOLR module for Go.

REFERENCES

References available upon request.