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VYSHAKH KANDAMATH

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EMPLOYMENT

Software Engineer, Intern — **Accenture Federal Services** — **June 2016 – Aug. 2016**

- Self-taught and developed PL/SQL code rapidly and collaboratively to actively contribute to a large-scale USPS project
- Optimized Oracle SQL queries and amended existing production code to adhere and adapt to changing database models
- Developed innovative solutions to fix software defects and implement new design amendments
- Identified inefficiencies in existing Java program and problem-solved to reduce runtime from $O(n^2)$ to $O(n)$ by implementing HashMap structure for faster lookups

Software Developer, Intern — **Accenture Federal Services** — **May 2015 – Aug. 2015**

- Built live surveying app collaboratively to enable team leads to assess how well their team members follow Agile
- Designed and implemented random-code generator to allow employees to easily access correct surveys in real-time, especially if multiple project teams ran surveys simultaneously
- Structured backend hierarchy to enable executives to access aggregated survey results by division, team, sub team, etc
- Developed analytics dashboards to compare results between teams and influence best engineering practices at AFS

Research Assistant — **Maryland Cybersecurity Center** — **June 2014 – Aug. 2014**

- Studied survival analysis in order to analyze data concerning hazard rates of host vulnerabilities
- Analyzed the probability that a vulnerability in a host would be patched
- Interpreted statistical trend tests to determine reliability in patches for system vulnerabilities

EDUCATION

College Park, MD — **University of Maryland** — **Sept. 2013 – May 2017**

- B.S. in Computer Science from College of Computer, Mathematical, and Natural Sciences
- Minor in Innovation and Entrepreneurship from Robert H. Smith School of Business
- Banneker Key Scholarship (Full merit award) and University of Maryland Dean's List
- Undergraduate Coursework: Object-Oriented Programming I & II, Discrete Structures, Organization of Programming Languages, Differential Equations, Algorithms, Intro to Reverse Engineering, Computer Networks, Data Structures, Computer and Network Security, Programming Language Technologies and Paradigms, Database Design, Intro to Data Science, and Bioinformatics
- GPA: 3.77

PROJECTS

Tempo Tunes, Bitcamp 2016 – Hackathon — **https://github.com/vkandamath/tempotunes**

- Android app for Myo Gesture Control Armband that automatically changes music based on a runner's workout intensity
- Employed Spotify SDK to connect app to Spotify playlists and Myo SDK to implement motion tracking
- Utilized Matlab to identify motion tracking patterns in walking, jogging, and running data

Gymder, Bitcamp 2015 – Hackathon — **http://devpost.com/software/gymder**

- Pebble Smartwatch app that enables gym users to match with workout buddies
- Implemented Pebble SDK to design watch app UI and maintain connection to phone and other Pebble watches
- Implemented Sails.js to develop mobile web app that enables user to register watch

Chatterbox — **https://github.com/vkandamath/chatterbox**

- Anonymous chat application written to learn real-time Node.js development using Express.js and Socket.io
- Implemented HTML/CSS, Javascript, jQuery Bootstrap, Animate.css to add features such as 'user-is-typing' updates, image uploads, message color selection, and nickname selection

TickerTrack — **https://github.com/vkandamath/TickerTrack**

- A Chrome extension that aggregates financial news from Yahoo Finance in real-time, allowing users to add and delete news feeds as they wish
- Useful in keeping an eye on news that could cause a stock's price to fluctuate

LANGUAGES AND TECHNOLOGIES

- Proficient in Python, Java, C, Grails, PostgreSQL, concurrency, R, data structures, and algorithms
- Hands-on experience with Oracle SQL, version control (Github and Subversion), MVC frameworks, HP Quality Center, Agile, Unix, Node.js, Django, and Socket.io
- Intermediate competency in HTML, CSS, Javascript, and jQuery
- Working knowledge of Apache Spark and Hadoop