Benjamin B. Perkins

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Passionate and dedicated software engineer with a background in computer science from the University of Michigan and six years of industry experience. Skilled in programming across a variety of platforms – ranging from web to embedded systems – in both scrum and self-directed workflows. Possesses a strong desire to both share expertise and continue learning in a fast-paced, collaborative environment.

EXPERIENCE

Fitbit — San Francisco, CA / Seattle, WA

***Staff Research Software Engineer**, Research and Development Team* — Present

***Senior Research Software Engineer**, Research and Development Team* — 9/2017 – 3/2019

***Research Software Engineer**, Research and Development Team* — 7/2015 – 9/2017

Rapidly developed software and prototypes, explored future technologies, developed algorithms on web and embedded systems, led projects with local and remote teams. Contributions include:

- Led Fitbit Labs Sleep Score Beta project
- Developed web front-end and on-device apps for Fitbit Labs (https://www.fitbit.com/labs)
- Developed debugging and analytics tools for data acquisition, logging and real-time display
- Improved algorithms for Screen Wake
- Led or worked on various other projects that have not been publicly disclosed

***Firmware Engineer**, Firmware Team (six-month rotation)* — 2/2017 – 7/2017

Developed low-level system functionality for Fitbit Ionic in an agile team environment. Worked on feature development, bug-fixing and optimizing embedded code for size and performance

***Software Engineer**, Device/Site Team* — 2/2014 – 7/2015

Developed web and desktop software to interface Fitbit devices with site backend in an agile team environment. Helped design, develop and release Fitbit Connect 2.0 to support newly-released fitness trackers

Other Roles: Created and organized recurring company-wide hackathon yielding new internal and public features

University of Michigan — Ann Arbor, MI

***Software Engineer**, DoE Extreme Ice Project* — 2013

Developed embedded software for remote research installation where system uptime was mission-critical

***Instructor's Assistant**, EECS 441: Mobile App Development for Entrepreneurs* — 2013

Software Engineer and Leadership, *Michigan Mars Rover Team* — 2009 – 2013

Held leadership positions including President, Electrical Team Lead and Information Systems Officer

Domino's Pizza Corporate — Ann Arbor, MI

***Information Services Intern**, Information Services and Technology* — Summer 2012 & 2013

Performed full-stack web development to build award-winning content-creation and delivery systems

Focus Motion — Ann Arbor, MI

Software and Hardware Engineer — 2012 – 2013

Designed software and hardware for a consumer electronic startup. Prototypes led to secured funding

EDUCATION

University Of Michigan — Ann Arbor, MI

Bachelor of Science with Honors in Computer Science Engineering — 2009 – 2013

SKILLS

Languages/Technologies: JavaScript/Node, Python, C, C++, Swift, Objective-C, SQL, HTML, CSS, Git

Other Skills: Rapid prototyping including 3D design and printing; circuit design, debug and assembly

Sample Work: https://www.fitbit.com/labs/ · https://github.com/perkinsb1024/ · https://bitwise.bperki.com/