Rohan Mahajan

23605 Oak Valley Road Cupertino, CA 95014
rohanmahajan1993@gmail.com 408-203-2793

EDUCATION

Massachusetts Institute of Technology (MIT) *Cambridge, MA*
B.S. in Computer Science and Electrical Engineering June 2015

- *Relevant Coursework*: Algorithms, Software Engineering, Mathematics for Computer Science, Probabilistic Systems Analysis, Machine Learning, Mobile App Development, Computer Systems, Computer Architecture, Computer Security, Distributed Systems, Video Game Development, Software Studio, Artificial Intelligence, Digital Communication Systems, User Interface Engineering, Embedded Systems, Fabrication Laboratory

M.S. in Computer Science and Electrical Engineering June 2016

- Researched Data Processing Systems in MIT PDOS laboratory

WORK EXPERIENCE

Barefoot Networks – *Software Engineer* *Palo Alto, CA*

- Designed and Implementing Networking Protocols for novel Data Center Networking chips *Sep 2016 - Present*

LightSpeed Ventures Summer Fellow – *CEO and Founder of FlyBuy* *Menlo Park, CA*

- Building mobile self-checkout application for retail stores *June- Aug 2015*
- Developing iOS application and website
- Responsible for customer and product development

Quip – *Software Engineering Intern* *San Francisco, CA*

- Reported directly to Head of Engineering and was only intern *June-Aug 2014*
- Implemented Box, Atlassian Confluence, Google Drive, and Apple Notes import on iOS, Web, and Android
- Designed all projects end to end

Facebook – *Data Infrastructure, Graph Processing - Software Engineering Intern* *Menlo Park, CA*

- Conducted literature review on various partitioning and streaming algorithms *June-Aug 2013*
- Developed and implemented multiple one pass streaming algorithms for Facebook Scale Graph
- Designed, implemented, and benchmarked multiple approaches for storing partitioning information

RESEARCH EXPERIENCE

MIT Parallel and Distributed Operating Systems Laboratory *Boston, MA*

- Worked on peer to peer protocols in datacenter *Sep 2015-Jun 2016*
- Implemented adaptive scheduling in Spark to improve regular shuffles and sort-merge joins

TEACHING ASSISTANT EXPERIENCE AT MIT

- 6.S897 (Advanced Graduate Level Large Scale Systems Class) *Sep 2015-Dec 2015*
- 6.828 (Graduate Level Distributed Systems) *Jan 2015-Jun 2015*

RECENT PROJECTS

Wi-Fi Power Strip *Nov–Dec 2015*

- Designed system that allowed users to turn on power outlets just through web dashboard
- Designed and 3d printed enclosure and structure, designed circuits of relays, and did all wiring, soldering, and packing
- Wrote Microcontroller code to drive relays and communicate over Wi-Fi

Wing Women – *Team Tech Lead* *Sep–Dec 2014*

- Designed system that allowed women to heat their backs when experiencing pain through a mobile application
- Built iOS App (User Interface and Bluetooth backend code) and also developed circuit with arduino and electric heating pad

In Browser Spark – *Team Member* *Jan–May 2014*

- Designed system that allowed users to volunteer computer resources by visiting a website in browser
- Wrote partitioning code to determine what computation to put on which computer
- Wrote WEBRTC code to more efficiently exchange data between different computers

HONORS/AWARDS

- 1st Place Team- MIT Performance Engineering Final Project
- 3d Place Team– MIT Software Studio Final Project
- Intel Science Talent Search Finalist
- Presidential Service Award

SKILLS & INTERESTS

Programming Languages: iOS, Android, Ruby on Rails, Go, Python, Java, C, JavaScript, HTML, CSS
Technical Skills: 3d design, 3d printing, molding and casting, laser cutting, CNC Machining, PCB design, soldering, using oscilloscopes