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MAYANK M. MAKWANA

Entrepreneur | Software Developer | Student

EXPERIENCE

Full Stack Software Engineer	**LeanPlum**	**August 2018-current**

- Building and scaling infrastructure to lower costs and support more customers.

Engineering Fellow	**Kleiner Perkins**	**Summer 2018**

- Chosen from 3000+ applicants as one of 52 engineering fellows to participate in the Kleiner Perkins fellowship program in Silicon Valley.
- Attended talks and networking events with technology icons like John Doerr and Mary Meeker.

Kleiner Perkins Eng. Fellow	**Shape Security**	**Summer 2018**

- Researched different encryption algorithms based on security properties, and performance.
- Designed, integrated, and tested a cryptographically secure algorithm into Shape's core product.
- Implemented optimizations for custom, in-house JavaScript compiler to improve performance and security.
- Worked on other internal projects that are protected by NDA.
- As a Kleiner Perkins Fellow, attended talks from technology icons like John Doerr and Mary Meeker.

Full Stack Software Engineer	**LeanPlum**	**Summer 2017**

- Worked on infrastructure team to both cut server costs while scaling services for hundreds of millions of users with technologies like Cassandra, Kubernetes, and Apache Beam.
- Focused on building and integrating a production-ready Cassandra database to cut server costs by $80k.
- Architected and implemented a map reduce pipeline to send push notifications to millions of mobile users.
- Designed integration tests for customer-facing features to ensure that service level agreements were met.
- Used the agile methodology to quickly and efficiently iterate to find the optimal solution.

Software Engineer (iOS)	**Sprout Social**	**Summer 2016**

- Deployed over 10,000 lines of Swift, Objective-C and JavaScript code to production.
- Developed iOS and Android app using React Native from scratch for use by real Sprout customers.
- Implemented Single Sign On, Push Notifications, SSL certificate pinning, and OAuth.
- Leveraged Agile principles to quickly and effectively build production-ready features.

EDUCATION

University Park, PA	**Pennsylvania State University**	**Fall 2015 – May 2018**

- B.S. in Computer Science, May 2018. GPA: 3.85 / 4.0
- CMPSC 464: Theory of Computation, *Teaching Assistant*; HackPSU, *Executive Director*; Association for Computing Machinery, *Vice President*

COMPETITIONS

- **MIT Zero Robotics, 4th in World:** Ranked 4th in the world for programming a robot on the International Space Station to take pictures of different points on an asteroid, while accounting for conditions in space. C++.
- **International Collegiate Programming Contest, 3rd Place:** Ranked 3rd in the ICPC competition for solving algorithm-related problems. Java, Python.

TECHNICAL EXPERIENCE

- **Penn State Dance MaraTHON PASS System**: Django application (both back-end and front-end) that monitors building capacity as well as stage capacity by automatically checking on/off attendees. Application is used by 16,000+ users and can handle massive amounts of data. Python (Django framework), SQL.
- **Muse Thinks**: Internet of Things device capable of detecting seizures and contacting authorities/family upon detection. Implemented using Muse Headband and Particle Photon IOT board. Java, Android, AWS, Javascript.

Languages and Technologies

- Java, C/C++, Python, JavaScript, Swift, Objective-C, SQL
- API Creation/Usage, OOP/Functional, React Native, React, Redux/Flux, iOS/Android Development, Django, Git
- AWS, IntelliJ, Eclipse, Xcode, Vim, Visual Studio, PyCharm, Sublime Text, Photoshop, Command Line, Unix