Omkar Salpekar

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EXPERIENCE

TEXAS INSTRUMENTS | Software Engineering Intern — May 2016 – Aug 2016
- Built a C library that manages sensor networks from a wireless microcontroller unit
- Designed evaluation module for an 8-bit register in Assembly

SETI RESEARCH CENTER | Research Assistant — Aug 2016 – present
- Developing machine learning algorithms to classify petabytes of radiofrequency signals
- Working on pattern matching and anomaly detection on radio data

FREE VENTURES | Director — Sep 2015 – present
- Help lead startup incubator that provides funding, mentorship, and support for no equity
- Handle sponsorship and engagement between venture capital firms and startups in our portfolio

YOUTH OF THE FUTURE | Founder/President — Jan 2013 – present
- Started a non-profit that runs free STEM after-school classes in Hayward and Oakland
- Received funding from State Farm, Disney, City of Hayward, and ABC News

EDUCATION

UNIVERSITY OF CALIFORNIA, BERKELEY — Aug 2015 – May 2019
BS in Electrical Engineering and Computer Science

Regents' and Chancellor's Scholarship

Coursework: Data Structures, Computer Architecture, Networking, Algorithms, Databases, Artificial Intelligence, Machine Learning (Coursera), Designing Devices and Systems I & II

PROJECTS

CRASH SENSE — May 2016 – present
- Used BeagleBoard Microcontroller and network of proximity sensors to gather data on car crashes
- Wrote Machine Learning algorithms to determine party at fault based on crash conditions

ENCRYPTED CHAT APP — Aug 2016 – Nov 2016
- Built secure chat application with RSA encryption using Socket API in Python
- Includes features like group chat, buffering, and error correcting

SERV WEB APP — Dec 2016 – Jan 2017
- Web App that recommends community service opportunities to you based on interests and ratings
- iOS app in development

SECURE SMART HOME — Jan 2017 – present
- Monitoring Internet traffic across home network to protect connected devices from hacking
- Working on effectively flagging malicious traffic and blacklisting corresponding destination IPs

SKILLS

Python, Java, C, SQL, Javascript, HTML, CSS, Assembly, Tensorflow, Apache Spark, Flask, MongoDB, Git