

CHIRAG TOPRANI

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EDUCATION UC SAN DIEGO 2015 - 2019 B.S. / Major: Computer Science GPA 3.95 / Minor: Economics

WORK EXPERIENCE

FACEBOOK / Software Engineering Intern (Audio 360) / *C, C++, Python, ReactJS* 6/17-9/17

- Developed full fledged audio plugin framework using a rich stack with a React based UI interfacing a custom **from-scratch** high performance **C++ server**.
- Created custom networking protocols to lower network stream latency by 180% and optimize packet distribution. Added functionality to support concurrent clients for the same instance.
- Created custom processing and build scripts with Python.

CISCO / Software Engineering Intern (Cisco UCS) / *Ext JS, CSS, HTML* 6/16-9/16

- Worked on Cisco's Unified Computing System Director product that delivers Infrastructure as a Service (IaaS) management software for data centers.
- Used JS, HTML, and CSS to develop UX features and automate workflows to optimize data center management.
- Developed **over 30** distinct features and workflow enhancements. Created graphical visualization of data center resource usage using Ext JS which was displayed on product dashboard.

MIT ZERO / Coding Captain / *C, C++* 9/14-3/15

- Reached **Worldwide Semifinal stage**.
- Controlled SPHERES satellites in the ISS. Used C/C++ to locate POIs on asteroids and photograph them.
- Focused on optimizing three-dimensional movement algorithms by 70% in order to reach the most number of POIs in the shortest amount of time.

PROJECTS

TUNE JUNGLE / Python, ffmpeg, Node.JS, React, Firebase 5/17-PRES

- Created web app which allows users to search for music snippets to augment online communication
- Used forced alignment techniques to pattern match between popular music and lyric tracks.
- Developed algorithm to index and store over 30,000 sound clips in a high performance database.

EVENT EYES / Node.JS, Microsoft Azure, Java 11/15-2/16

- Created Android application that detects important information from event flyers and adds it to your calendar.
- Worked on Optical Character Recognition using the Google Tesseract engine, text parsing using NLP APIs to find key information, and Android front end and back end.

ORGANIZATIONS

PROJECTS @ UCSD / Founder 5/17-PRES

- Teamed up with two peers to start project incubator.
- Sourcing projects from local startups and organizations.
- Mentoring and guiding student teams to develop solutions

TESC / ProDev Commitee 9/15-4/17

- Organized events which prepared UCSD students for the workforce including DeCAF, UCSD's student run career fair.

SKILLS & HONORS

GENERAL: C/C++, Bash, Node, MongoDB

DATA: Python, SciPy

NETWORKING: libuv, gtest, TCP/IP

ANDROID: Java, Firebase, JUnit, Unity, NFC

WEB: HTML/CSS/JS, ReactJS, ExtJS, jQuery,

HONORS: SD Hacks Viasat Award '16, 1st Place UCSD Hack Day '16, 6x Provost Honors