SHIVA SUDANAGUNTA

Website: shiv-uh.github.io ● GitHub: github.com/Shiv-uh ● 916-805-7325 ● sss336@cornell.edu

EDUCATION

Cornell University **Ithaca, New York**
Master of Engineering – Computer Science Expected Graduation: May 2022
BS – Computer Science, Applied Economics and Management (GPA 3.98/4.30) May 2021
Relevant Coursework: *Software Engineering, Object-Oriented Programming and Data Structures, Computer System Organization and Programming, Functional Programming and Data Structures, Operating Systems, Linear Algebra*

WORK EXPERIENCE

HomeAdvisor | Software Engineering Intern *June 2021 – August 2021*
- Self-initiated 13 user interviews with members of the sales organization and platform integrity team to identify areas for improvement within an internal customer relationship management tool—BETTI
- Developed functionality that allows sales representatives to rapidly provide prospective customers with the amount of opportunity available by zip code, reducing "on hold" wait times by an average of 6 minutes over ~1,500 outbound calls per week
- Created 2 new phone search options, accelerating the platform integrity team's effort to identify fraudulent accounts

Cornell University | Graduate Teaching Assistant *June 2021 – August 2021*
- Provided direct mentorship and guidance on assignments in weekly office hour sessions for CS 1110 – Introduction to Computing Using Python

Cornell Course Management System | Software Developer *January 2020 – May 2021*
- Furthered development of Cornell's Course Management System (CMS), a website actively used by 8,000+ students and course staff members for announcements, assignment distribution, and submissions
- Developed capabilities for students to view course information, upload assignments for submission, and schedule appointments with course staff on a new React front-end; maintained the UI throughout REST API development

Rawlings Cornell Presidential Research Scholars | Research Assistant *February 2018 – May 2021*
- Created web scraping scripts to automate the collection process for 1,000+ corporate disclosure forms and SEC filings
- Utilized Pandas to visualize data trends and determine how aspects of corporate disclosure forms and SEC Form 4 filings can positively and negatively affect company market performance

PROJECTS

Downtime - (Dart, Flutter, Firebase) *May 2020 – Present*
- Created a mobile app for iOS and Android to help people coordinate and find "experiences" with friends
- Features an "explore" feature where users can share unique ideas for things to do in their city and town, giving other users access to lesser-known experiences for their own friend group
- Utilized a business logic component (BLoC) app architecture to ensure scalability

CookOPS - (JavaScript, Express, Node, AWS) *February 2020 – April 2020*
- Coordinated with 7 other team members to build an online program system that streamlined the planning and hosting of events for 400+ student residents at Cornell's Alice Cook House; will be used Fall 2020 onwards
- Integrated a Shibboleth single-sign-on system to comply with Cornell's IT standards, making CookOPS accessible to only members of the Cornell community
- Incorporated Cook House's previous Google Calendar planning workflow into CookOPS, enabling event admins to view existing events and automatically push new events created in CookOPS to the house's Google Calendar

NanOCaml - (OCaml) *October 2019 – December 2019*
- Developed a text editor inspired by Nano and Vim featuring line numbering, line "bookmarking," special cursor behavior, and basic keyword highlighting support for OCaml and Python to improve usability
- Incorporated a spell check tool and word-autocomplete suggestions; achieved a first-word suggestion accuracy of 70%

SKILLS

Languages: Java – Python – Dart – JavaScript – OCaml – RISC-V Assembly – C – Swift – HTML/CSS – SQL
Frameworks/Tools: React – Express – Node – Spring – AWS (EC2, RDS) – Flutter – Firebase – JIRA – Git