# SHIVA SUDANAGUNTA

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## EDUCATION

**Cornell University**                                                                                                    **Ithaca, New York**
Master of Engineering – Computer Science                                                        Expected Graduation: May 2022
BS – Computer Science (Minor), 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, Operating Systems, Linear Algebra, Database Systems (F21), Intro to Machine Learning (F21), Foundations of AI (F21)*

## WORK EXPERIENCE

**Angi (HomeAdvisor) | Software Engineering Intern**                                          *June 2021 – August 2021*
- Reduced "on hold" wait times by an average of 6 minutes over ~1,500 outbound calls per week by developing functionality that allows sales representatives to rapidly provide prospective customers with the amount of opportunity available by zip code
- Accelerated the platform integrity team's effort to identify fraudulent accounts by creating 2 new phone search options
- 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"

**Cornell University | Graduate Teaching Assistant**                                          *June 2021 – August 2021*
- Provided mentorship and guidance on assignments in weekly office hour sessions and labs 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*
- Automated the collection process for 1,000+ corporate disclosure forms and SEC filings by creating web scraping scripts
- 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
- 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, INTERESTS, & ORGANIZATIONS

**Languages:** Python (Advanced) – Java (Advanced) – JavaScript (Intermediate) – HTML/CSS (Intermediate) – Dart (Intermediate) – Swift (Intermediate) – OCaml (Intermediate) – SQL (Intermediate) – C (Exposure) – RISC-V Assembly (Exposure)

**Frameworks/Tools:** React – Express – Node – Spring – AWS (EC2, RDS) – Flutter – Firebase – JIRA – Git

**Interests:** Rowing – Hiking – Basketball (Lakers) – South Asian Film Industry – Poker

**Organizations:** Telugu Association of Cornell (Co-Founder, VP of Recruitment) – Cornell Impact Investing (VP of Operations)