

Education

B.S Computer Science, Management (Minor),
Purdue University, GPA: 3.45

West Lafayette, IN,
Fall 2016 - May 2020

Experience

Honeywell | Atlanta, GA

Summer 2019

Software Engineering Intern

- Implemented front-end in a warehouse management system deployed to production for 2 enterprises
- Implemented features to delete multiple inventories, enable custom buttons, and aggregate data from backend by using **TypeScript**, **React**, **mobx**, **graphql** and **jest**
- Devised a **Python** based traffic simulation POC leading to an innovation stimulus for civic IOT in Honeywell

Charles River Development | Burlington, MA

Spring 2019

Full-Stack Developer Intern

- Architected and developed an internal automation tool that reduced manual labour from 40 to 2 hours per task, with a 4 month frequency per task, as the sole developer in the team
- Designed and developed an interface in the **Django** backend to support interacting with critical XML API using **lxml**
- Incorporated decision making by evaluating critical choices such as **jQuery** table plugins that avoided technical debt and led to a timebound project

Purdue Computer Science | West Lafayette, IN

Fall 2018

Undergraduate Teaching Assistant

- Assisted in concepts of **Systems Programming** in **C/C++** in weekly office hours and labs, Piazza; 8 hrs/week
- Guided students by giving in depth explanations and empathizing student approaches, leading to increased interest and understanding

VectorScient | Chicago, IL

Summer 2018

Python Developer Intern, remote

- Designed and implemented a statistical utility package for internal data analysis using **Scipy** and **Pandas**
- Integrated with **Yaml** for providing configuration for input file, columns to ignore and normalization
- Produced the package to intake CSV files of any size (5 MB) and output PDFs for data visualization

Projects

Alarm² - Android Application | **Android-Java**, **Django**, **Firestore**

Spring 2018 -
Present

- Devised the application with features for backup-calling as a novel way to wake users
- Implemented the low level scheduling of alarms and handling of triggering events
- Established storage of alarm data using Room Database ORM
- Performed version control of application amongst 4 developers with **git**

Systems programming projects | **C**, **C++**, **CLI Shell**, **HTTP**

Spring 2018,
Fall 2019

- Implemented caching support in memory management module in Xinu system for increased memory structure and performance.
- Implemented a custom CLI **shell** using simple **C++** structures and tools Flex and Yacc, with support for IO redirection and wildcard expansion
- Developed a vanilla **C++ webserver** using **socket interface** of UNIX, with support for CGI scripts, fork per request mode and static folder routing

Noteherder | **React**, **Firestore**

Summer 2018

- Integrated **Firestore** storage and authentication (using third party login) to scope notes by user
- Leveraged **Bootstrap**, **Font Awesome** and **Foundation** for a user-friendly experience

Smartcity Project: Community driven project to autonomously detect potholes | **Python**, **NumPy**

Fall 2017 – Spring
2018

- Lead multidisciplinary team of Data Analysis of 4 members as Design Lead; earned “Spirit of Epics” award
- Developed the algorithms for manipulating image data using **NumPy** and **OpenCV** functions in Python

Skills

Technologies – **JavaScript**, **C/C++**, **Git**, **Python**, **TypeScript**, **ReactJS**, **Java**, **Android-Java**, **bash**, **Django**, **mobx**, **graphql**, **Flutter**, **Dart**
Coursework – Operating Systems, Data structures and Algorithms, AI, Software Engineering, Machine Learning