

## Education

B.S Computer Science, Management (Minor), Purdue University, GPA: 3.45 / 4.0 (Cum.)

West Lafayette, IN, May 2020

## Experience

Honeywell | Atlanta, GA

June – Aug 19

*Software Engineering Intern*

- Collaborated on an enterprise warehouse management web application in a 10 member **Scrum** team
- Implemented features to delete multiple inventories, enable custom buttons and sort data from backend using **React**, **mobx**, **graphql** and **jest**
- Devised a **Python** based traffic simulation and designed its communication using **JSON** based protocol

Charles River Development | Burlington, MA

Jan – May 19

*Full-Stack Developer Intern*

- Single-handedly developed a web application for internal automation
- Reduced manual labour from 40 to 2 hours per task, with a 4 month frequency per task
- Utilized **Django** as web framework and **jQuery** and **Bootstrap** for easy DOM manipulation and styling

Computer Science, Purdue University | West Lafayette, IN

Aug – Dec 18

*Undergraduate Teaching Assistant*

- Helped in concepts of **Systems Programming** - malloc, shell scripting, bash-like shell, web server in **C++**, etc
- Attended to 30 students per week in labs, office hours, Piazza forums, spending 8 hrs/week

VectorScient | Chicago, IL

May 18

*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

Alarm<sup>2</sup>: A smart alarm with novel ways to wake people | **Android-Java**, **Django**, **Firebase**

Jan 18 - Present

*Scrum master and developer*

- Devised the application that allows backup-calling and alarms involving locations and groups
- Implemented the low level scheduling of alarms and handling of triggering events
- Established storage of alarm data using RoomDatabase ORM
- Performed version control of application amongst 4 developers with **git**

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

Jan - Apr 18

- Implemented a vanilla **C++ webserver** using **socket interface** of UNIX, with support for CGI scripts, fork per request mode and static folder routing
- Implemented a Command Line Interface **shell** using **C++**, Flex and Yacc, with IO redirection and wildcard expansion
- Implemented **malloc** in **C++** with efficient allocation using segregated free lists

Noteherder: A web application to store users' notes | **React**, **Firebase**

May 18

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

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

Aug 17 – May 18

*Design Lead and Project Archivist*

- Lead the multidisciplinary team of Data Analysis of 4 members as Design Lead
- Developed the algorithms for manipulating image data using **Numpy** and **OpenCV** functions in Python
- Received the "Spirit of EPICS" award for the passion and dedication towards the project

## Skills

Technical – **JavaScript**, **C/C++**, **git**, **Python**, **ReactJS**, **Java**, **Android-Java**, **bash**, **Django**

Non-technical – leadership, presentation and oration