

SAMANTHA COE

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EDUCATION

Purdue University, West Lafayette, IN
Bachelor of Science in Computer Science
Minor in French

May 2021
GPA: 3.77/4.0

Awards: Boeing Computer Science Scholarship, Gene and Margueritte Kim Scholarship, Dean's List, Grace Hopper 2019 Scholarship Recipient

SKILLS

Proficient: Java, C, C++, French, Albanian

Familiar: Swift, JavaScript, HTML, CSS, Python

EXPERIENCE

Harris Corporation, Clifton, NJ

May 2019-August 2019

Software Engineer Intern

- Built internal tooling in **Java** to generate graphs to document position of satellites in relation to monitor stations and wrote Unit Tests to prove validity of the graph
- Refactored and reviewed verification tools essential to Product Testing for the release of new GPS software
- Created script in **Python** to generate improved test input data to increase passing rate of nightly test runs

TechPoint, Indianapolis, IN

May 2018-June 2018

Xtern Bootcamp Participant

- Participated in a 3-week intensive training course, hosted by TechPoint, focused on developing the skills and competencies needed for internships in tech
- Developed full-stack skills in web development by working with HTML, CSS, JavaScript, and React
- Used Firebase to create databases to host user data and allow user authorization

PROJECTS

BoilerWallet, Group Project

April 2019

- Webapp created with **NodeJS** and **Bootstrap** that allows Purdue organizations to manage their finances and expenses
- Used **MongoDB** to store user data and rendered front-end UI through **Express Framework**

NoteHerder

June 2018

- Website developed with **React** framework and written in **JavaScript** that allows users to write and store notes online
- Implemented back-end features with Firebase to allow user authorization and save their notes to the database

SPARK!, Group Project

April 2018

- iOS app written in **Swift** that tests the user's ability to memorize a sequence of colors with increasing difficulty
- Collaborated and led two other teammates to design game flow and debug issues
- Developed key back-end features such as saving and updating the user's high score and generating new levels

INVOLVEMENT

USB Help Room, Academic Tutor

August 2018-Present

- Instructed and mentored students in understanding and completing course work for courses in **Java** and **C**

Purdue University, Undergraduate Teaching Assistant

January 2019-Present

- **CS240:** Guide students in understanding programming in **C** and efficiently debugging their code with tools such as GDB
- **CS252:** Assisted students in System Programming in **C** to create BASH scripts and projects such as malloc and shell

Mentors for Aspiring Girls in Computer Science (MAGIC), Student Mentor

August 2018-December 2018

- Mentor to younger students in both high school and middle school to assist with learning coding skills
- Promoted the representation of girls in the science field by recruiting female students to join coding organizations

Mini Make, Treasurer

August 2018-Present

- Organized day-long coding event for 60 high school and middle school students in the surrounding area
- Encouraged students to pursue and explore studying computer science