Geoffrey Cramer

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Summary

Developer with **3 years of software engineering experience and 2 years of teaching experience**. Seeking a developer experience/advocate/relations role to pursue my passion for teaching software development and supporting learners.

Skills

Python, Java, TypeScript, C#, .NET, CI/CD, GitHub Actions, Flutter, GCP, AWS, Docker, Dart, C/C++

Education

Purdue University — West Lafayette, IN
M.S. Thesis Electrical & Computer Engineering — *Spring 2023*

Purdue University — West Lafayette, IN
B.S. Electrical Engineering with Distinction — *Spring 2018*

Experience

Software Course GTA — Spring 2022 – Spring 2023
Purdue ECE Department — *West Lafayette, IN*

- Developed toolkit to collect and grade student code inside a GitHub Action for full automation and easy scalability.
- autograde.py runs provided tests and collects results that can be uploaded as workflow an artifact.
- Created method for grader workflow to test students' CI/CD workflows (Docker-in-Docker).
- Grader workflow finds the repos to grade and finds the appropriate commit before the due date. Full demo here.

Thesis: Study of Trust & Safety Engineering in Open-source Social Media Platforms — Fall 2021 – Spring 2023
Advisor: Professor James C. Davis — *West Lafayette, IN*

- Provided first empirical study of T&S Engineering by analyzing 60 GitHub issues across 2 open-source SMPs.
- Developed taxonomies for T&S risks, solutions, and decision rationales. Discovered 12 design patterns in the field.
- Wrote and submitted manuscript to illustrate novel results and propel state-of-the-art practice. Link here.
- Mentored and guided two undergraduate students to facilitate valuable contributions to the project.

Software Engineer — May 2019 – January 2022
Magnar LLC — *Philidelphia, PA (Remote)*

- Designed, launched, and maintained Android app for fast and secure physical access control.
- **Improved personnel throughput by 20%** without compromising integrity by optimizing device operations.
- Streamlined operations team processes and **automated manual tasks, saving 10 minutes per unit**.
- Scaled and modularized design to support multiple devices, peripherals, and a growing customer base (>50).
- **Managed full-stack web development team** to create online interface for deployment management.
- Handled an array of roles such as customer support, operations engineering, and market research.

Digital System Design GTA — Fall 2021
Purdue ECE Department — *West Lafayette, IN*

- Led 2 lab sections each week & monitored student progress as they completed hands-on assignments.
- **Guided students in learning foundational concepts including combinational and sequential circuits.**
- Provided special assistance to under-served students who faced an array of professional and personal challenges.
- Leveraged existing autograding infrastructure to develop grading scripts, **saving course staff hours of work**.

Adjunct Faculty — August 2019 – May 2020
Ivy Tech Community College — *Indianapolis, IN*

- Taught an entry level C/C++ course for engineering students by leveraging a flipped-classroom approach.
- Developed lectures for basic C/C++ concepts including loops, objects, file I/O, and object-oriented programming.
- Inspired students to take ownership of their learning by fostering a collaborative, inclusive classroom environment.
- Navigated the challenges of COVID-19 by converting to online instruction while ensuring student engagement.

Achievements

Outstanding Mentor Award	*Purdue Undergraduate Research Fellowship*	Summer 2022
Vice President	*Purdue Flutter Development Club*	Fall 2021 - Spring 2023
Executive Member	*Eta Kappa Nu - IEEE Student Honor Society*	Fall 2021 - Spring 2023
Contribution to IoT patent submission	*Magnar LLC*	April 2019
Dean's List and Semester Honors	*Purdue University*	Fall 2014 – Spring 2018