

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 <i>M.S. Thesis Electrical & Computer Engineering</i>	West Lafayette, IN <i>Spring 2023</i>	Purdue University <i>B.S. Electrical Engineering with Distinction</i>	West Lafayette, IN <i>Spring 2018</i>
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EXPERIENCE

Software Course GTA <i>Purdue ECE Department</i>	Spring 2022 – Spring 2023 <i>West Lafayette, IN</i>
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- 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 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 <i>Advisor: Professor James C. Davis</i>	Fall 2021 – Spring 2023 <i>West Lafayette, IN</i>
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- 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 <i>Magnar LLC</i>	May 2019 – January 2022 <i>Philadelphia, PA (Remote)</i>
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- 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 <i>Purdue ECE Department</i>	Fall 2021 <i>West Lafayette, IN</i>
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- 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 <i>Ivy Tech Community College</i>	August 2019 – May 2020 <i>Indianapolis, IN</i>
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- 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	<i>Purdue Undergraduate Research Fellowship</i>	Summer 2022
Vice President	<i>Purdue Flutter Development Club</i>	Fall 2021 – Spring 2023
Executive Member	<i>Eta Kappa Nu - IEEE Student Honor Society</i>	Fall 2021 – Spring 2023
Contribution to IoT patent submission	<i>Magnar LLC</i>	April 2019
Dean's List and Semester Honors	<i>Purdue University</i>	Fall 2014 – Spring 2018