

# Maeve Tra

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## EDUCATION

### Purdue University

Bachelor of Science in Computer Science

Concentration in Software Engineer, Security, and Machine Learning

West Lafayette, IN

Graduating May 2024

## EXPERIENCE

### Amazon Web Services (AWS)

Remote

OpenSearch JavaScript Client Contributor

September 2023 – Present

- Actively participated in the development and maintenance of the OpenSearch JavaScript Client
- Conducted code reviews and provided constructive feedback, fostering a collaborative and inclusive open-source environment

### KMS Technology

Remote

Software Engineering Intern

June 2023 – August 2023

- Developed front-end modules for Kobiton Appium to perform testing on real mobile devices hosted in cloud using JavaScript ES6 and React, achieving seamless automatic testing for mobile-web applications.
- Conducted in-depth analysis of Kobiton's runtime data, offering insights for future development efforts
- Contributed as a Test Engineer on the LexisNexis Insurance project, resulting in a 13% increase in test coverage across all platform functionalities

## PROJECTS

### Wizard's Chess | Python, OpenCV, PowerShell

January 2023 – Present

- Developed and implemented computer vision algorithms utilizing OpenCV to detect, recognize, and track chess pieces, leading to a successful recognition and tracking of 8 new chess pieces
- Set up basic path planning algorithm to determine how each piece will move on the designated board. Actively participated in optimizing the algorithm

### BoilerBuddies | React, Firebase, AWS, PostgreSQL, Go

January 2023 – April 2023

- Developed a React-based social media web application, integrating Golang on AWS EC2 as a web server and a PostgreSQL database hosted on AWS RDS for the backend.
- Implemented real-time direct messaging using WebSocket and the Socket.IO library to enable seamless communication and front-end updates in ~32 seconds
- Implemented Firebase Authentication to enhance privacy and security for user data.

### Virtual Closet | Flutter, Firestore, Firebase Auth, Google Cloud Vision

August 2021 – December 2021

- Developed an application compatible with both Android and iOS using Flutter framework
- Trained and evaluated a machine learning model for clothing item recognition on Google Cloud AutoML Vision, achieving an accuracy rate of 82%.

## LEADERSHIP & INVOLVEMENT

### Hello World Hackathon

West Lafayette, IN

Design Lead (2023)

May 2021 — September 2023

- Monitored progress and quality of all graphics used in the Hello World 2023 hackathon, leading to the successful achievement of all goals 45 days ahead of the projected schedule

Director (2022)

- Coordinated Purdue University's largest freshman-only hackathon, attracting more than 250 participants and achieving a 20% increase in overall participation
- Established communication channels with corporate representatives to facilitate the planning and execution of workshops and promotional events

## TECHNICAL SKILLS

**Languages:** JavaScript, TypeScript, Python, Java, C/C++, HTML/CSS, SQL (Postgres), Dart, GoLang

**Frameworks:** React, Node.js, Next.js, Bootstrap, Flutter, Angular.js, TensorFlow

**Developer Tools:** Git, Docker, Google Cloud Platform