# ANDREW T. CHAN

**California Polytechnic State University - SLO** 

### **EDUCATION**

### San Luis Obispo, CA

- Major: B.S. in Computer Science, GPA: 3.959
- Certificates: Minor in Gender, Race, Culture, Science, and Technology (GRCST)
- Relevant Coursework: Data Structures, Proj-Based Object-Oriented Programming, Data Science, Computer Security, Operating Systems, Algorithms, Artificial Intelligence, Databases, Distributed Computing, Networks

### **WORK EXPERIENCE**

### **Software Developer**

- **CalMatters AI4Reporters**
- Designed and implemented a custom user auth system with Google APIs following the OAuth2.0 protocol
- Implemented features including user profiles, in-memory query caching, and automated system monitoring
- Accelerated rollout by migrating from spreadsheets to custom admin dashboard for user management
- Reduced lead times and prod. defects by creating QA EC2 instance and standardizing deployment workflow
- Contributed day-of hotfixes for live QA and production bugs affecting core site functionality as necessary

## **Software Engineering Intern**

- SMUD Full-stack web development in C# with the ASP.NET Core MVC framework, SQL Server, jQuery, and Bootstrap
- Contributed to AI/ML projects and POCs as part of SMUD AI Governance Council (AIGC) pilot program

### **Software Engineering Intern**

- Designed and implemented a modular, end-to-end regression test suite for ServiceNow PPM module
- Created test scripts to monitor the uptime of three client-facing login portals and generate logs in Confluence

SMUD

# LEADERSHIP & CAMPUS INVOLVEMENT

### Technical Lead | Developer Hack4Impact @ Cal Poly Sept. 2022 – Sept. 2024 Led a team of 10 student developers to build a full-stack volunteer management system using NextJS

- Planned sprints and established weekly retrospective, planning, and stand-up meetings for developers
- Worked closely with client, PM, and designers to translate client specs into technical requirements
- Mentored developers and performed code reviews to maintain high code quality standards
- Developed an inventory management system for a non-profit store using React, NodeJS, and AWS Amplify

## **OTHER PROJECTS**

# **Personal Website**

# My personal website and blog built with Eleventy and hosted with GitHub Pages

100 Lighthouse scores in all categories: Performance, Accessibility, Best Practices, and SEO

## **Concurrent HTTP Server**

- C, Linux
- A small HTTP server application serving JSON using POSIX sockets
- Support for concurrent client connections via an event-driven server loop using the select() API

# AI Satellite Image Classifier

- Worked in a small team in collaboration with CostQuest Associates (CQA)
- Modified an open-source implementation of Mask R-CNN for object detection and instance segmentation

Python, Keras, TensorFlow

# LANGUAGES AND TECHNOLOGIES

- C#; Python; JavaScript/TypeScript; C; Java; Golang; Bash; HTML/CSS; VBScript; Racket; SQL; Scala
- React; ASP.NET; Django; NodeJS; Git; NextJS; Flask; Linux; Azure DevOps; Bootstrap; UFT; AWS; Spark

# **OTHER INTERESTS**

Open-source software, web performance & accessibility, hi-fi audio, Raspberry Pi, self-hosting, coffee, baking!

# Aug. 2023 - Jan. 2024

June 2024 – Feb. 2025

# Mar. 2025 – Present

Nov. 2024 - Dec. 2024

Sept. 2024 – Dec. 2024

# Eleventy

Jan. 2024 – Present

December 2024