ETHAN OUTANGOUN

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EDUCATION

California Polytechnic State University, San Luis Obispo   **Expected June 2025**
Master of Science in Computer Science   *GPA: 3.71*
Relevant Coursework: *Artificial Intelligence, Intro to Data Science, Software Engineering, Data Structures, Design and Analysis of Algorithms, Object Oriented Programming and Design, Intro to Database Systems, Systems Programming*

SKILLS & TECHNICAL TOOLS

Languages: Python, Java, C, C#, MySQL, JavaScript, HTML/CSS, Racket
Technologies: React, Node, MongoDB, Express, Flask, NumPy, Pandas, TensorFlow, TailwindCSS
Developer Tools / Skills: Heroku, DigitalOcean, Jira, Git, Agile, Figma, Unix

EXPERIENCE

Software Engineer Intern, CalMatters   **November 2023 - Present**
Digital Democracy - Database Team | MySQL, Python, Pandas
- Collaborated with backend team to develop "*Digital Democracy*", a website designed to conveniently present information on all legislative affairs within California
- Leveraged MySQL to establish intricate data relationships and populate new tables, providing users with more comprehensive insights on the interactions of diverse stakeholders
- Communicated with design team to translate Figma mockups into data schemes that ensure alignment between backend structures and frontend needs

Machine Learning Research Assistant, Cal Poly Software Engineering Department   **March 2023 - Present**
Ethnicity Detection using Face & Name | Python, Flask, NumPy, Pandas, Scikit-learn
- Performed an examination of research trends among California faculty members to investigate the potential correlation between ethnicity and collaboration between professors
- Trained Naïve Bayes and Random Forest model to detect ethnicity using a person's name and face, yielding a 93% accuracy rate on our testing set

Information Technology Intern, Proofpoint   **June 2023 - September 2023**
Internal Helpdesk Team | Jira, Active Directory, Kaseya, MS Office
- Supported Active Directory management in user provisioning, access control, and group policy management
- Applied strong troubleshooting skills to swiftly identify and resolve various technical issues

PROJECTS

Outiblog | React.js, MongoDB, Express, Heroku
- Created a full stack application "Outiblog" where users can post blogs, like, and comment with others
- Designed frontend using *Material UI* library for a clean user experience
- Implemented *user authentication* using Auth0 library to prevent anonymous users from posting blogs, commenting, and accessing protected routes
- Developed the backend using Node.js and Express.js to communicate with MongoDB database
- Visit the website here: https://outiblog.vercel.app/

LandScaipe | React.js, Flask, Python, TensorFlow, MySQL, Heroku
- Developed a website that utilizes building detection, plant hardiness zones, and geospatial data to automate landscaping projects and suggests optimal plant positioning on a given map
- Utilized Docker to build a custom environment that supports Mask R-CNN model on Heroku servers
- Created MySQL relational database to store plant suitability for any location across California

EXTRACURRICULAR

Thai Vietnamese Student Association Social Coordinator / Powerlifting /Swimming / 3D Modeling