

# Ostend Suryajaya

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## Education

### University of California, Irvine

B.S. Computer Science

Expected Graduation – May 2025

GPA: 4.00

**Courses:** Data Structures and Algorithms, Database Systems, Object-Oriented Programming, User Interaction Software, Intro to Software Engineering, Boolean Logic & Discrete Mathematics, Linear Algebra

## Technical Skills

**Programming Languages:** Python, C++, Java, JavaScript

**Web & Database:** HTML, CSS, SQL, PostgreSQL, MySQL, Firebase

**Framework:** React, React Native, ChakraUI, Tailwind, Bootstrap, REST API, Agile, Scrum

**Technologies:** Git, Postman, Node.js, Express.js, AWS (S3, EC2, RDS), Microsoft Azure AI Studio

## Awards

### Best Use of Twilio API

February 2023

- 1<sup>st</sup> place award for best usage of the Twilio API during HackUCI 2023, used to optimize the sending of SMS messages programmatically in the ZotGainz mobile app project.

## Experience

### Commit the Change | *React, Express.js, Node.js, PostgreSQL, AWS S3, Firebase*

October 2022 – Present

*Technical Lead & Full Stack Developer, University of California, Irvine*

- Implemented new donation management system using **React**, **Express.js**, **Node.js**, and **PostgreSQL**, streamlining furniture donation and driver pickup routes for Patriots & Paws, a 501(c)(3) for veterans across Orange County, to save **100+ hours** monthly.
- Conducted code reviews on submitted issues to align with industry best practices such as **ES6 standards**.
- Delegated tasks to a **12-person** developer team using **Scrum** to ensure project completion in one year.

### Code Ninjas | *Python, Java, Lua*

June 2022 – Present

*Code Instructor, Irvine, CA*

- Taught **300+** children ages 5-14 on programming topics including **Python**, **Java**, and **Lua** to create over 15 different projects on platforms such as Roblox, Minecraft, & Scratch.

### FIRST Robotics Team | *Python, Java, Git, embedded systems*

October 2020 – June 2022

*Programming Captain, Irvine, CA*

- Led the programming team to implement basic robot movement, create autonomous sequences, and utilize PID control loops to automatically aim at targets, earning a spot as alliance captain with a position of **top 10** during Rapid React, the FIRST Robotics Competition 2022.
- Trained **60+** members on **Java** essentials, **Git**, and WPILib, FIRST's API used for programming robots.

## Projects

### Genius AI | *React, Firebase, Flask, Python, Microsoft Azure AI Studio, MySQL, RESTful API, Vercel*

June 2023 – Present

- Designed a free computer science bootcamp, implemented as a **full-stack** web app with responsive web design through **React**, **Flask**, and **MySQL** and deployed with **Vercel** for **50+ users**.
- Developed educational **AI** using **Flask** and **Python**, providing training & support in Python fundamentals.
- Applied **web-scraping** on Stack Overflow, training the AI model with **Azure** services on **30,000+ questions**.
- Created a secure login system with user authentication and password hashing with email sign-in through **Firebase**, successfully facilitating the creation and management of **50+ accounts**.

### ZotGainz Mobile App | *React Native, CSS, Git, Twilio*

February – March 2023

- Created a mobile app that provided real-time fitness center foot traffic using **React Native** and **BestTime API**.
- Integrated the **Twilio API** to automatically send confirmation SMS messages to users for facility reservations.

### PiMon | *PostgreSQL, Express.js, React, Node.js, RESTful API, Firebase, AWS S3, AWS EC2, AWS RDS*

April 2023 – Present

- Created a **full-stack** web app using **React**, **Express.js**, **Node.js**, and **PostgreSQL** to let users add/edit video game character data via **CRUD operations** and view damage calculations and analysis for **70+ characters**.
- Implemented a secure and robust user authentication system using **Firebase**, allowing for post-account creation email authentication and password resetting via an automatic email system to create a seamless UX for **50+ user accounts**.
- Deployed using **AWS S3**, **EC2**, and **RDS** to allow for scalability and high-performance access with **99.9% uptime**.

### Buster Bot | *Java, Java Discord API (JDA), HtmlUnit, web-scraping*

September 2021 – June 2022

- Utilized **JDA** and **Java** to create a study-timer Discord bot used in **10+ Discord servers**.
- Applied **HtmlUnit** to **web-scrape** high school's announcements page and send **100+ weekly updates**.

### PiMon Bot | *Python, discord.py, library aggregation of info, CLI, easy access*

September 2020 – June 2021

- Practiced using **Python** and **discord.py** to create a video game utility Discord bot capable of tracking resource refresh rates, predicting time to earn a certain amount of currency based on various conditions, and find out information on available items depending on time of day for **10+ Discord servers**.