# Sutantu Balamurugan

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## Experience

**One Global Info Systems - Software Engineer**                                          04/2025 - Present
- Architected and deployed SportsColumbus, a multi-league sports management platform supporting match scheduling, team registration, and player approvals for cricket, soccer, and volleyball
- **Sole developer** driving **feature expansion, QA testing, and product launch** for a startup site leveraging user interaction data to optimize site performance (88+ unique visitor, 190+ page views)
- Delivered full-stack features using **React, Tailwind CSS, and Supabase/PostgreSQL**; integrated API endpoints, managed user sessions, and deployed via **Vercel** with a **90+ Experience Score**

## Education

**University of Washington | Bachelor of Science in Computer Science**                          Graduated 06/2025
- GPA: 3.6 | **Dean's List**

**Green River College | Associates of Science in Computer Science**                          Graduated 06/2022
- GPA: 3.9

**Relevant Coursework**: Database Systems, Data Structures & Algorithms, Operating Systems, Software Development Life Cycle, Web Programming, Object-Oriented Programming (Java, Python), Calculus I–IV, Management Principles, Hardware

## Projects

**RecapAI |** React, Tailwind, OpenAI API                                          01/2025 – 03/2025
- Designed an **AI-driven productivity tool** to convert meeting transcripts into structured summaries and extract actionable tasks, reducing manual note-taking effort by teams and improving meeting productivity
- Implemented a **responsive single-page interface** using React and Tailwind CSS, with **LocalStorage-based state persistence,** enabling seamless offline usage and automatic session recovery without user authentication
- **Developed and integrated OpenAI API** to generate concise, real-time summaries and task breakdowns, improving meeting follow-up efficiency for users

**StudySync |** React, Tailwind, Firebase                                          10/2024 – 12/2024
- **Developed a collaborative productivity app** with Pomodoro timers and real-time chat features
- Used Firebase Auth and Firestore for user sessions and **real-time synchronization** of study states across users
- Built seamless navigation and state retention via client-side routing and session persistence, enhancing multi-user session stability

**DubHacks 2024: AI-Powered Waste Sorting System |** Python, PyTorch, FastAPI, React, Tailwind                          10/2024
- Developed a functional MVP of an image-based waste classification system using a **pre-trained Vision Transformer (ViT)** model, achieving over **80% test accuracy** on real-world recyclable categories
- Built a **FastAPI backend** to process and serve model predictions via REST and integrated it with a React frontend, enabling real-time image uploads and immediate classification feedback for users
- **Led end-to-end deployment** and debugging in a high-pressure **24-hour hackathon setting**, showcasing full-stack prototyping and AI integration under time constraints

**Red Apron |** JavaScript, NodeJS, Express, AWS, PostgreSQL                                          01/2024 – 03/2024
- Programmed a backend system for a food delivery service with **RESTful APIs** supporting **CRUD operations** and SQL queries, enabling efficient order management and customer data handling
- **Integrated AWS** services (**Elastic Beanstalk, EC2, RDS**) for scalable and reliable cloud deployment
- Unified frontend and backend logic to streamline order tracking and enable seamless customer data access

**Minesweeper Game Remake |** Python, PyQt5                                          04/2023 – 05/2023
- Recreated classic Minesweeper with custom UI, visual indicators, and recursive logic
- Enhanced gameplay features and user interaction through event-driven GUI design

## Skills

**Programming Languages & Frameworks:** JavaScript, React, Node.js, Express, Python, C++, Java, HTML/CSS
**Tools & Technologies:** Git, GitHub, VSCode, Supabase, Firebase, PostgreSQL, OpenAI API, FastAPI, PyTorch, PyQt5
**Cloud & DevOps:** AWS (Elastic Beanstalk, EC2, RDS), Docker
**Operating Systems:** Linux, Unix