

SUTANTU BALAMURUGAN

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EXPERIENCE

One Global Info Systems - Software Engineer Intern

Lisle, Illinois
04/2025 - Present

- Operated as the **sole autonomous developer** in a 10-person startup delivering on requirements provided by the CEO
- Launched SportsColumbus, a multi-league sports management platform supporting match scheduling, team registration, and player approvals for cricket, soccer, and volleyball
- Drove full DevOps cycle** including feature expansion, QA, deployment, and live monitoring for the MVP; logging 88+ unique visitors and 190+ page views since launch
- Full-stack development experience using **React, Tailwind CSS, and Supabase/PostgreSQL**; integrated API endpoints, managed user sessions, and deployed via Vercel, achieving a 90+ Experience Score

EDUCATION

University of Washington Bothell | 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

HACKATHONS

DubHacks 2024: AI-Powered Waste Sorting System | Python, PyTorch, FastAPI, React, Tailwind

10/2024

- Directed a 3-person team during a 24-hour hackathon, demonstrating generative AI application, full-stack orchestration, and effective coordination under time constraints
- Built an end-to-end waste classifier MVP using a pre-trained Vision Transformer (ViT) model to analyze webcam images of real-world waste items and determine recyclability in real time, **achieving 75% classification accuracy**
- Developed FastAPI backend to process and serve model predictions via REST, integrated with a React frontend for **live image uploads** using a webcam and instant classification

PROJECTS

RecapAI | React, Tailwind, OpenAI API

01/2025 - 03/2025

- Took initiative as the sole developer in a 2-person team, following UI design and project documentation to build a browser-based generative AI assistant that parses meeting transcripts and extracts key tasks, **improving team follow-up efficiency by ~25%**
- Designed **responsive single-page interface** with React router, persistent session handling via LocalStorage, and async API pipeline using Promises to ensure low-latency AI feedback and scalable frontend interaction
- Integrated a custom prompt-response pipeline for summarization using GPT-3.5 turbo, handling rate limits and errors for usage

StudySync | React, Tailwind, Firebase

10/2024 - 12/2024

- Led a 4-person team** as a frontend and real-time sync developer for StudySync, a productivity app with synchronized Pomodoro timers and chat features
- Implemented Firebase Auth and Firestore onSnapshot to enable real-time study room creation, dynamic user state updates, and secure session management
- Built responsive interface and session continuity through **client-side routing** and react state hooks; strengthened multi-user stability through incremental testing

Red Apron | JavaScript, NodeJS, Express, AWS, PostgreSQL

01/2024 - 03/2024

- Functioned as a backend engineer in a 3-person team to develop Red Apron, a mock food delivery service with scalable order tracking and user management
- Developed **RESTful API endpoints** using Express and PostgreSQL for CRUD operations and SQL workflows; built and tested a client-side interface to simulate real-time interactions by customers and vendors
- Deployed the full stack on AWS (Elastic Beanstalk, EC2, RDS), **achieving >95% uptime** and multi-tier fault tolerance

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