

SUTANTU BALAMURUGAN

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EXPERIENCE

One Global Info Systems | Software Engineer Intern

Lisle, Illinois

Supervisor Contact: kiran@oneglobalsys.com | 630-659-5617 | VP Operations

04/2025 - Present

- Engineered SportsColumbus, a full-stack, multi-league sports management startup, operating as the **sole developer**, working closely with the CEO to implement functionality
- Developed core functionality including match scheduling, team registration, and player approval workflows for cricket, soccer, and volleyball; logging **88+ unique visitors and 190+ page views** since launch
- Implemented a **Single Page Application (SPA)** utilizing React, TailwindCSS, and Supabase/PostgreSQL, integrating complex API endpoints using JavaScript, managing secure user sessions, and deployed via Vercel to achieve a **90+ Experience Score**

EDUCATION

University of Washington Bothell

June 2025

B.S Computer Science and Software Engineering

GPA: 3.6/4.0

Green River College

June 2022

A.S Computer Science

GPA: 3.9/4.0

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

October 2024

- 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** with a React frontend for live image uploads using a webcam and **instant classification**

PROJECTS

RecapAI | [Link](#) | React, Tailwind, OpenAI API

March 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 | [Link](#) | React, Tailwind, Firebase

December 2024

- Built a real-time productivity platform using React and Firebase to **support 20+ synchronized Pomodoro study sessions**, boosting accountability and focus
- Led a 4-person team and used Firestore onSnapshot to **dynamically sync user presence** and chat updates, enabling **instant feedback across clients**
- Implemented **session continuity** with React state hooks and client-side routing, improving multi-user reliability during live study sessions

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

March 2024

- Enabled **real-time order tracking** and **vendor-customer interactions** by building RESTful CRUD APIs with Express and PostgreSQL, backed by a tested client simulation
- Deployed on a 3-tier architecture on AWS (Elastic Beanstalk, EC2, RDS) to **ensure fault isolation** and **streamline app maintenance** for scalable service delivery
- Engineered backend systems for a mock food delivery as part of a 3-person team to simulate vendor/customer roles and support modular order tracking flows

SKILLS

Programming Languages: Java, C++, C, Python, HTML/CSS/JS, Bash, SQL

Frameworks: React, Node.js, Express, FastAPI

Tools & Technologies: Git, Supabase, Firebase, PostgreSQL, PyTorch, PyQt5, Linux

Cloud & DevOps: AWS (Elastic Beanstalk, EC2, RDS), Docker