

Soojal Kumar

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Education

University of the Pacific, Stockton, CA

2021 – Dec 2025

Bachelor of Science in Computer Science

Relevant Coursework: Artificial Intelligence, Data Structures, Computer Systems & Networks, Digital Design, Discrete Math, Programming for Data Science, Application Development

Technical Skills

Languages: Python, TypeScript, JavaScript, Java, C++, PHP, HTML, CSS, SQL

Frontend/Backend: React, Next.js, Tailwind CSS, FastAPI, REST APIs, SQLite, API Authentication, Request Validation, Pagination

AI/Data/Systems: Machine Learning, NLP, Genetic Algorithms, NumPy, Matplotlib, Linux, Unix, Docker, Git, GitHub Actions, CLI Tools, Speech Recognition

Experience

- **Operations Manager Intern** May 2025 – Sep 2025
Alaska Car & RV Rentals Anchorage, AK
 - Managed daily rental operations across reservations, check-ins, agreements, payments, insurance coordination, and customer support workflows.
 - Streamlined fleet tracking for availability, mileage, damages, service history, cleaning, inspections, and maintenance coordination.
 - Coordinated between customers, staff, insurers, workshops, and management to reduce operational delays and support high-demand seasonal activity.
- **Deputy Director of Diversity, Equity, and Inclusion** Nov 2024 – May 2025
ASUOP, University of the Pacific Stockton, CA
 - Coordinated student government operations with campus organizations, university stakeholders, and student leadership teams.
 - Improved communication workflows by identifying operational gaps, supporting documentation, and contributing practical recommendations.
- **Teaching Observation Partner** Dec 2023 – May 2024
University of the Pacific Stockton, CA
 - Observed classroom dynamics and delivered structured feedback to help faculty improve engagement, learning outcomes, and equity-focused teaching practices.

Projects

- **Cloud-Based API Service** Jan 2026 – Apr 2026
FastAPI, Python, React, TypeScript, SQLite, Docker, GitHub Actions
 - Developed a production-style task management API with CRUD operations, API-key authentication, validation, pagination, filtering, health checks, and structured error handling.
 - Built a React/TypeScript dashboard and Dockerized full-stack workflow to streamline task creation, updates, filtering, deletion, and deployment readiness.
 - Automated validation through GitHub Actions CI/CD, improving reliability and reducing manual build-check effort before deployment.
- **EchoWear** Aug 2025 – Dec 2025
Mobile Application, Speech Recognition, Haptic Feedback, Accessibility
 - Designed an accessibility-focused mobile and wearable interaction system using wake-word detection, customizable keywords, and haptic feedback.
 - Implemented real-time voice-triggered workflows that improved hands-free interaction and reduced reliance on touch-based navigation.
 - Enhanced user responsiveness through immediate vibration feedback, visual confirmation, and structured keyword management across mobile and smartwatch-style interfaces.
- **GenAI Project – Genetic Algorithm Optimization Engine** Aug 2024 – Dec 2024
Python, Genetic Algorithms, Optimization, NumPy, Matplotlib
 - Implemented a genetic algorithm framework using selection, crossover, mutation, and elitism to optimize candidate strategies from historical data.
 - Designed configurable CLI experiments with training/testing workflows, JSON summaries, and fitness progression plots to improve experiment tracking.
 - Streamlined performance analysis by generating structured outputs and visualizations for comparing optimization behavior across generations.

Certifications & Awards

- **Best Paper Award, IJAIBDCMS** – Explainable AI for Intrusion Detection Systems, Apr 2026
- **Docker Essentials: A Developer Introduction**, IBM, Apr 2026