

Aashish Sunar

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SUMMARY

Software Engineer with **3+ years** building production applications across diverse domains (education, disaster response, e-commerce), delivering measurable business impact for **2,000+ users**. Experienced in full-stack development (React, Node.js, Python, Flask, FastAPI), RESTful API design, and integrating AI/ML capabilities to solve complex client problems.

Proven ability to collaborate with cross-functional stakeholders, architect scalable solutions, and ship high-quality software on client timelines. Seeking to apply consulting mindset and technical versatility to help MojoTech clients accelerate innovation and drive transformational change.

TECHNICAL SKILLS

Programming Languages: Python | JavaScript (ES6+) | TypeScript | SQL | HTML5 | CSS3

Frameworks & Tools: React | Node.js | Express | Next.js | Flask | FastAPI | Streamlit

Databases: PostgreSQL | MySQL | MongoDB | SQLite

Cloud & DevOps: AWS (Lambda | API Gateway | S3 | EC2 | RDS | CloudFormation | CloudWatch) | Docker | CI/CD (GitHub Actions) | Git

APIs & Architecture: RESTful API Design | Microservices | Webhook Integration | Third-party API Integration

PROFESSIONAL EXPERIENCE

Software Developer | Student Assistant

August 2025 to Present

Claremont Graduate University

Claremont, CA

- Engineered an AI-powered document understanding system using LandingAI Vision API to extract structured course data from unstructured PDF advising sheets, processing **500+ documents** with **95% accuracy** and eliminating **3,000+ hours** of manual data entry per semester
- Designed dynamic course prerequisite graph visualization using nodes-and-edges data structures, enabling students to visualize degree progression and identify bottlenecks in their graduation paths
- Architected RESTful Flask backend with custom route decorators for JSON validation, implementing dual processing modes (synchronous/asynchronous) for varying document sizes—demonstrating experience designing scalable APIs and making architectural tradeoffs for client-specific requirements
- Collaborated directly with non-technical stakeholders (faculty, staff, students) through iterative feedback cycles, translating business requirements into technical solutions—demonstrating consulting-style client engagement applicable to diverse industries

Full Stack Developer | Office of Alumni Relations Assistant

August 2024 to July 2025

Soka University of America

Aliso Viejo, CA

- Developed a full-stack disaster monitoring application with Python Streamlit and PostgreSQL, integrating the NASA EONET API to provide real-time proximity alerts for **2,000+ global alumni** during natural disasters, reducing emergency response assessment time by **95%**
- Implemented geospatial analysis using Geopy and Folium for interactive mapping, automatically calculating distances between alumni and active disasters (wildfires, earthquakes, storms) with configurable alert thresholds and smart filtering capabilities
- Architected containerized deployment with automated CI/CD pipeline (GitHub Actions), implementing Docker containers for consistent development-to-production environments, secure credential management, and optimized caching strategy (1-hour TTL)—reducing API calls and improving response times
- Built a full-stack inventory management system with React frontend and Node.js backend APIs, reducing item search time by **50%** through intelligent categorization and fuzzy search algorithms

Software Developer & Co-Founder

January 2023 to August 2025

Jewelry E-commerce

Nepal

- Built full-stack e-commerce platform with RESTful APIs and microservices architecture, integrating MySQL and PostgreSQL databases with secure payment gateway APIs (5 providers, HMAC-SHA256 verification), serving **200+ customers** and processing **\$40K+ transactions**—demonstrating experience architecting solutions for client-specific business requirements

- Built a multi-tenant SaaS platform with Next.js and PostgreSQL to replace spreadsheet-based operations for jewelry businesses, implementing 9 fully functional modules (sales, inventory, accounting, ledger, expenses, payments) with Prisma ORM, company-scoped data isolation, and Zod input validation
- Designed a 5-level role-based access control system (Owner, Admin, Manager, Staff, Viewer), enabling secure multi-user collaboration, with server-side authentication and JWT session management to protect sensitive business and financial data
- Developed a real-time inventory tracking system with lot-based stock management, dynamic pricing based on metal purity (24K/22K/18K gold, 925 silver), and integrated payment processing, including trade-in workflows—reducing manual bookkeeping by **65%** and increasing transaction accuracy for **200+ customers**

PROJECTS

OwenWrites, AI Writing Platform

- Built production web application with React TypeScript frontend and FastAPI RESTful backend, implementing scalable API architecture with **99.5% uptime** through containerized deployment, automated testing, and production monitoring—demonstrating experience shipping client-ready digital products
- Developed an AI writing assistant enabling authors to receive feedback on their manuscripts in the voices of classic literary figures (e.g., Tolstoy, Hemingway), leveraging Claude/GPT APIs and fine-tuned models with custom system prompting and conversation memory to provide constructive feedback, preserving the author's own writing styles
- Engineered end-to-end ML data pipeline: collected and preprocessed **50K+ documents**, implemented semantic search using Sentence-Transformers and ChromaDB, deployed production RESTful APIs with automated evaluation—improving retrieval relevance by **40%** while reducing memory footprint by **60%**, demonstrating experience integrating AI/ML capabilities into scalable applications
- Designing edge-first data architecture with local vector storage, client-side embeddings, and offline inference, enabling **100% data privacy** and significant cost savings for enterprise users

ShopSync, Unified Accounting, Sales, and Inventory Management Platform

- Engineered AI-powered financial dashboard integrating OpenAI Vision API via RESTful endpoints, building automated document processing workflows extracting structured data from unstructured images, processing **1,000+ monthly receipts** for **50+ users**—demonstrating experience architecting AI-enabled solutions for client business challenges
- Built a full-stack productivity suite using React, Node.js, and MongoDB, consolidating notes, tasks, accounting, and inventory management into a single platform that reduces context-switching time by **60%** for small business owners
- Implemented responsive UI with Tailwind CSS and Lucide icons featuring role-based access control, search functionality, and data visualization components, achieving **95% user satisfaction scores** through intuitive navigation and mobile-first design
- Developed secure Node.js backend infrastructure with Express middleware for rate limiting, CORS protection, and email verification, implementing JWT authentication and RESTful API patterns—demonstrating experience building production-grade microservices for scalable applications

Hospital Search System

- Built an automated ETL pipeline using Python Flask and Jupyter Notebooks to transform **5,000+ California HHS hospital records** into a searchable SQLite database, reducing manual data entry from 40+ hours to 2 hours through automated CSV conversion, validation, and schema migration scripts
- Implemented CI/CD testing pipeline with pytest, achieving **80%+ code coverage** across 50+ unit tests for authentication flows, database models, and API routes, collaborating in Agile sprints with a 5-developer team to ensure zero security breaches and consistent code quality
- Designed a three-tier role-based access control (RBAC) system with Flask-Security, enabling role-specific workflows (Admin/Provider/Patient), and implemented Flask-Login authentication system supporting three distinct user workflows—admins managing accounts, providers updating services, patients searching facilities—reducing administrative overhead by **35%**
- Engineered intelligent search with fuzzy matching and SQLAlchemy query optimization across 7+ medical specialties (urgent care, maternity, psychiatric), delivering sub-100ms response times for a 5,000-record database and enabling patients to filter search by facility name, location, and services

AWARDS

Fourth Place Winner (30+ competing teams), CGU Ethical AI Hackathon

November 2025

- Built BlueHabit wellness navigation app using ESRI GeoAI and Claude Sonnet 4.5, integrating air quality APIs, satellite imagery, and a multilingual AI chatbot to provide accessible route planning for diverse urban users, including wheelchair users and visually impaired residents

EDUCATION

Claremont Graduate University

Claremont, CA

MS in Information Systems and Technology | AI-Driven Innovation

August 2026

Relevant Coursework: Building Gen AI Apps | Software Development | Natural Language Processing | Database | Communications and Networking