

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

MS in Information Systems and Technology | AI-Driven Innovation

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

Claremont, CA

August 2026