

Yuvraj Gupta

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EDUCATION

San Francisco State University

Bachelor of Science in Computer Science

San Francisco, CA

Expected 05/2026

Relevant Coursework: Operating Systems, Database Systems, Software Engineering, Parallel Computing, Computer Architecture, Algorithms, Artificial Intelligence, Cloud Computing

SKILLS

- **Programming Languages:** Java, C++, C#, Python, Golang, Rust, JavaScript, TypeScript, SQL
- **Frameworks & Technologies:** React.js, Node.js, Express.js, Spring, Django, Flask, Android SDK, Tailwind CSS, GraphQL
- **Embedded Systems:** Linux (Ubuntu, Raspbian), GDB, Valgrind, CMake, Make, Assembly Language
- **Cloud & Platforms:** Amazon Web Services (AWS), Google Cloud Platform (GCP), Docker, Linode, MongoDB Atlas, Kubernetes
- **AI & Data:** TensorFlow, PyTorch, Scikit-learn, Pandas, Apache Spark, Elasticsearch, ONNX, Jupyter Notebooks
- **Databases:** MySQL, PostgreSQL, MongoDB, SQLite, Redis, Prisma ORM, NoSQL Systems
- **Concepts:** Object-Oriented Programming (OOP), JWT Authentication, OAuth 2.0, Agile/Scrum Methodology, SDLC, Continuous Integration/Delivery (CI/CD), Virtual and Augmented Reality (VR/AR)

EXPERIENCE

San Francisco State University, Graduate Division

Student Assistant

San Francisco, CA

08/2023 – 06/2025

- Digitized and indexed over **1000+ graduate** transcripts, ensuring accurate database records and improving administrative efficiency
- Assisted around **200 students** with program requirements and documentation, delivering clear guidance and reducing time
- Managed high-volume phone operations, directed more than **60 calls** per week and resolving graduate student inquiries with a resolution rate **90% + first contact**

Tutree

Backend Developer Intern

Sunnyvale, CA

05/2023 – 08/2023

- Engineered a library management system in **Golang**, designing **RESTful APIs** and database models to support user authentication, role-based access, book tracking, and automated check-in/out processes
- Debugged and refactored backend issues in existing code, enhancing system performance for **Synkdup** and agent-dashboard projects and reducing bug occurrence by **5%**
- Participated in daily **Agile sprint** planning, code reviews, and **collaborative development**, contributing to improved delivery quality and team velocity

PROJECTS

AI-Powered Newsletter | Python, Perplexity API, Gmail, Google Sheets

07/2025 – 08/2025

- Developed an automation platform to generate and send AI-curated newsletters, integrating **Perplexity API** for sourcing articles
- Automated email distribution via **Gmail API** with batching, retries, and delivery confirmations, reducing manual curation by 90%
- Built **Google Sheets** integration for subscriber management, segmentation, and analytics, providing real-time engagement insights

Job Assistant Platform | React.js, Node.js, PostgreSQL, OpenAI API

06/2025 – 07/2025

- Engineered a full-stack AI-powered job assistant with features for resume optimization and cover letter creation
- Spearheaded the backend with **Node.js**, **Express.js**, and **PostgreSQL**, integrating the **OpenAI API** for intelligent resume tailoring and cover letter generation
- Designed an analytics dashboard to track application performance, success rates
- Implemented secure authentication (**JWT**), **Prisma ORM**, and **Redis** caching for optimized data access and scalable performance

Gator Marketplace Application | AWS EC2, MySQL, Bootstrap, Nginx

02/2025 – 05/2025

- Led a team of 5 students through **Agile practices**, reinforcing teamwork and software engineering principles
- Architected a campus-specific e-commerce platform created with **Python Flask** with secure authentication, listing management, messaging features and designed responsive UI
- Deployed application to an **AWS EC2 server** with Unicorn, MySQL integration for persistent data storage and GitHub branching strategy for collaborative development

Self-Driving Robotics Project | C++, Raspberry Pi 4

08/2024 – 10/2024

- Assembled a line-following, obstacle-avoiding robot using **Raspberry Pi 4** with custom **C drivers** to interface with ultrasonic (HC-SR04) and IR (TCRT5000) sensors
- Programmed **GPIO control** and connected a WaveShare Motor HAT (PCA9685) to regulate dual DC motors with a **PID controller** for accurate trajectory control

File System Development | C, Linux, Make, GDB, Valgrind

06/2024 – 07/2024

- Collaborated with a team of 4 to implement a custom file system on **Linux**, supporting file creation, reading, and writing operations
- Applied **bitmap-based** free space management to optimize disk utilization and maintain directory structure integrity
- Automated builds with **Make** and employed **GDB/Valgrind** for rigorous debugging, ensuring reliability and memory safety