ASHISH KUMAR

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EDUCATION

Bachelor of Science (Computer Science)   **Expected May 2027**
Arizona State University, Tempe, AZ, United States of America   **4.00 GPA**
Relevant Coursework: Data Structures & Algorithms, Software Engineering, Databases, Operating Systems, Cloud Computing, AI/ML

TECHNICAL SKILLS

- **Languages:** Python, Java, JavaScript/TypeScript, SQL, C++
- **Web & Frameworks:** React, Node.js, Flask, FastAPI, Rest APIs
- **Databases:** PostgreSQL, MySQL, SQLite
- **Cloud & DevOps:** AWS (EC2, S3, IAM, Lambda, CloudFormation), Docker, GitHub Actions, Linux
- **Data/ML:** Pandas, NumPy, scikit-learn, HuggingFace Transformers (basics)
- **Testing:** JUnit, pytest, Playwright

PROFESSIONAL EXPERIENCE

Software Engineer Intern   **May 2025 - July 2025**
Advanced Heart & Vascular Specialists, Las Vegas, USA

- Built small internal services in Python (FastAPI) + SQL to generate daily clinical and operations reports from the EHR, cutting manual prep time by one-third.
- Designed and maintained REST APIs with input validation and access controls, improving secure patient data retrieval for 30+ healthcare staff.
- Triaged and fixed bugs in patient-scheduling workflows, adding unit tests (pytest) to ensure reliability and cut recurring issues.

Data Analyst Intern   **May 2024 - July 2024**
Universal Associates, Rajasthan, India

- Collected, cleaned, and analyzed large datasets of property listings and financial transactions using Python (Pandas, SQL) to generate actionable insights.
- Built interactive dashboards in Excel/Google Data Studio that tracked client activity and revenue trends, helping leadership identify growth opportunities.
- Developed and optimized SQL queries to deliver property market reports with faster turnaround time.

ACADEMIC / TEACHING EXPERIENCE

Teaching Assistant & Grader: FSE 301   **Aug 2025 - Present**
Ira A. Fulton Schools of Engineering, ASU

- Evaluated 200+ entrepreneurial project deliverables using Canvas LMS and structured digital rubrics.
- Delivered rapid, data-driven feedback on venture design, value propositions, and market analysis.
- Applied scalable grading workflows and templated feedback systems to ensure accuracy across 50+ students.
- Collaborated with faculty to calibrate grading metrics and maintain consistency in assessment standards.
- Supported course simulation of real-world venture creation by assessing innovation and business model viability.

Instructional Aide & Grader: ENV130   **July 2024 - May 2025**
School of Mathematical and Natural Sciences, ASU

- Evaluated assignments, quizzes, and exams, grading a large volume of student work while providing detailed and constructive feedback.
- Delivered ENV 130 course content through lectures, discussions, and one-on-one support.
- Managed administrative tasks: tracked attendance, organized materials, and assisted with grade entry.

PROJECTS

MediTrack – Patient Appointment & Records System

- Built full-stack web app (React, FastAPI, PostgreSQL) for patient scheduling, records, and reminders.
- Deployed on AWS EC2 + RDS with Dockerized services, ensuring reliable uptime.
- Implemented secure login & role-based access, improving patient data confidentiality.

InfraWatch – Lightweight Cloud Monitoring Dashboard

- Created dashboard using Flask + AWS CloudWatch APIs to track CPU/memory metrics.
- Integrated real-time alerts via Slack for instant incident response.
- Containerized with Docker, enabling portable deployment across servers.

Campus Research Paper Recommender

- Built recommendation engine with Python + scikit-learn (TF-IDF) on 10k+ academic papers.
- Exposed results through FastAPI REST API and a simple React UI.
- Delivered top-5 related paper suggestions with 82% relevance accuracy.

QuickServe – Scalable URL Shortener Service

- Achieved p95 latency <100ms under load testing with 10k+ requests.
- Designed RESTful service using Node.js, PostgreSQL, and Redis caching.
- Added analytics module to track clicks, referrers, and device usage.

LEADERSHIP / VOLUNTEER EXPERIENCE

Arizona State University | Programming Student Volunteer – Desert CodeSprouts Workshop   **Feb 2025 - May 2025**

- Delivered hands-on coding activities to middle school students, introducing programming concepts in a fun, engaging way
- Collaborated with ASU faculty and peers to create an inclusive learning space encouraging diversity in tech.