Aashir Javed

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EDUCATION

Bachelor's Computer Science (Data Science & ML Track) – ***Arizona State University*** | **GPA: 4.00** **Jan 2023 – Dec 2026**
Relevant Coursework: Data Structures and Algorithms, Python, SQL, OOP, Software Engineering, Stats, Linear Algebra, Distributed Systems, Discrete Math, Operating Systems, Database, Cybersecurity, Networks, Quantum Computation
Certifications: AWS Fundamentals Specialization, Intel Data Analytics

WORK EXPERIENCE

Research Intern **Jan 2026 – Present**
Fulton Undergraduate Research Initiative *Tempe, Arizona*

- Architecting a "Memory-Aware" Neuro-Symbolic framework for early **Alzheimer's** detection that fuses longitudinal patient history consisting of **4 data modalities** (MRI, PET, Genetics, Cognition) with a **Neo4j Knowledge Graph** to identify Pre-Clinical to MCI transitions earlier than stateless baselines
- Engineering a longitudinal simulation engine on the **Sol Supercomputer** to process **2,000+** patient timelines from **ADNI** & **OASIS-3**, transforming **10 years** of static clinical history into continuous trajectories to model silent disease evolution.
- Created a rigorous evaluation testbed comparing **4 distinct memory architectures** (Stateless, Vector, KG-Based, Hybrid) across **5** key clinical metrics, validating the system's ability to maintain temporal consistency over long patient histories.

Software Engineering Intern – Generative AI Division **Aug 2025 – Oct 2025**
Sedai Inc. *Pleasanton, California*

- Built an **AWS Bedrock**-powered log analysis pipeline that normalized multi-service telemetry across 5+ microservices, reducing issue triage time by **~35%** through automated tagging and pattern detection.
- Added unified schema and data validation checks that improved consistency and downstream parsing errors by **~40%.**
- Documented pipeline architecture in **Git**, improving observability, auditability, and hand-off reliability across SRE teams.

Beta Contributor **Jun 2025 – Present**
CreateAI Lab *Tempe, Arizona*

- Applied engineering and AI techniques to evaluate and stress-test **30+ LLMs**, comparing performance trade-offs.
- Collaborated with **5+ faculty stakeholders** to translate requirements into production-ready assistants, iterating in a team environment while adding **validation, safety checks,** and **consistency guarantees** to improve system robustness.

Software Lead – Automated Safety Escort **Nov 2024 – May 2025**
Engineering Projects in Community Service *Tempe, Arizona*

- Led a team building an autonomous LiDAR-SLAM safety-escort system for nighttime campus operations and a companion **React Native (Expo)** mobile app using **React Navigation** and **react-native-maps**, enabling campus escort requests and improving mapping accuracy by **~20%.**
- Built a **Python** autonomy stack (OpenCV, NumPy, PID) with real-time sensor/camera fusion and A*/Dijkstra navigation, then stress-tested and optimized it to cut end-to-end latency by **~30%** while preserving obstacle-aware safety.

PROJECTS

kairos – Agentic Trading Framework | *Anthropic and PolyMarket x HacksASU (1st Place) link* **Nov 2025**

- Engineered a one-stop personalized trading framework that orchestrates Claude 3.5 with **multiple** third-party **REST APIs** (Polymarket, Nevua, Adjacent News), learns from user trades to flag incoherent positions, generates alerts and news, and stores a private knowledge base in a **PostgreSQL (Neon)** database using **Node.js** and **TypeScript**.
- Built the full-stack engine with **Next.js, React**, **Tailwind**, and **Prisma**, secured user login with OAuth via **Amazon Cognito**, containerized the system with **Docker**, deployed on **Vercel**, and applied boolean matrices, knapsack, and set cover for arbitrage detection, graph analysis, and market intelligence.

clozyt.flo – ML Fashion Algorithm for **Clozyt (Startup)** | *Devlabs – DevHacks (1st Place) link* **Sept 2025**

- Built a TikTok-style fashion recommender with a real-time **FastAPI** backend serving **FAISS** embedding retrieval and storing swipe/like/superlike and preference signals in **MongoDB Atlas** to power low-latency personalized feeds.
- Used **scikit-learn** for preprocessing/baselines, prototyped ranking ideas in **PyTorch**, then shipped a multi-signal recommender that blends session and long-term preferences with exploitation/exploration balancing and **kNN** fallbacks.

TECHNICAL SKILLS

Languages | Python, Java, TypeScript, JavaScript, SQL, C++, Bash, HTML/CSS
Back End | React.js, Node.js, FastAPI, Spring, REST APIs, JSON, HTTP methods, Prisma, Firebase
Databases | PostgreSQL (Supabase, Neon), MongoDB Atlas, Neo4j AURA, FAISS
Cloud and Tools | AWS (Bedrock, Lambda, Cognito, CodeCommit, EC2), Docker, Git/GitHub, CI/CD, Vercel, GCP

LEADERSHIP AND COMMUNITY HONORS

- **Club Campus Partner, Perplexity AI (Fall Cohort)** – promoting adoption of advanced but safe AI technologies.