Fahad Ali Khan

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LinkedIn Profile

SUMMARY

Software Engineering graduate with experience in C/C++, Python, and JavaScript for software development, API debugging, and automated testing (unit and integration). Skilled in CI/CD pipelines, cloud platforms (AWS, Firebase), and database reliability. Hands-on experience with artificial intelligence and machine learning (ML model training, fine-tuning, NLP, and data analysis). Strong foundation in full-stack development, error tracking, and performance optimization. Passionate about applying AI to improve scalability, system reliability, and developer productivity.

EDUCATION

Bachelor of Engineering – Software Engineering (Graduated Aug 2025)
Seneca Polytechnic – North York, ON
President's Honour List – Fall 2023 | Relevant Courses: **Mobile Development, Web development, System Design, Database Management, Machine Learning I & II** | Extracurriculars: Seneca Student Tutor, GenAI Hackathon 2024, Seneca Hackathon 2024

WORK EXPERIENCE

Software Engineer Intern
Project Human City   **Jan 2025 – May 2025**
Responsibilities:

- Developed and tested secure payment workflows with **Stripe**, ensuring PCI-compliant backend integration
- Built a responsive **Next.js e-learning platform** with authentication and authorization flows
- Conducted **unit and integration testing** to validate APIs and improve system reliability
- Optimized performance and scalability through debugging and iterative testing

Software Engineer Intern
DigmLabs   **May 2024 – Sept 2024**
Responsibilities:

- Designed and optimized applications using **ReactJS** and **Python**, reducing development time by 15%.
- Integrated APIs with secure authentication and validated transactions through functional testing
- Implemented **automated test cases** and debugging routines to ensure product reliability
- Collaborated in **Agile sprints**, performing code reviews and contributing to testing standards

PROJECTS

AeroGuard Customs (Capstone Project) – YOLOv8 | ESP32 | Firebase | GitHub Actions

- Built an AI-powered customs screening system with >90% detection accuracy
- Implemented **Python ML pipeline** for object detection and automated **CI/CD with GitHub Actions**
- Debugged and validated model inference under real-world constraints.

Event Planner App – Kotlin Compose | SQLite | Ticketmaster API

- Developed Android app with event tracking and offline DB
- Designed CRUD testing for SQLite/Postgres and validated API integrations

Plant Classification API – *FastAPI | PyTorch | PyTest | DynamoDB*

- Built REST API for tomato disease classification
- Deployed model inference via **Python pipeline** with performance testing
- Wrote unit/integration tests with **PyTest;** explored **DynamoDB** for **API logging**

AI Chess Bot – Python | Game AI | State Validation | Unreal Engine 5

- Implemented a chess game with an AI opponent using Python pipelines
- Focused on **logic validation and state testing** for reliable gameplay

SKILLS

- **Languages/Frameworks:** Python, JavaScript (React, Node.js, Next.js), TypeScript, Kotlin, SQL, Java, C/C++, C#
- **Cloud & Infra:** AWS, Firebase, Docker, GitHub Actions (CI/CD), Jenkins
- **Databases:** PostgreSQL, MongoDB, SQLite, MySQL, DynamoDB, Redis
- **Testing & QA:** Unit, Integration, API, Regression Testing | PyTest, JUnit, Selenium
- **AI/ML:** Python ML pipelines, PyTorch, TensorFlow, LLM integrations (course + project exposure)