NAVEED AHMED SYED

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LinkedIn | GitHub | Portfolio

WORK HISTORY

Software Engineer In Test | PAR Technology | Toronto **Jan 2025 - Apr 2025**

- Engineered automated POS test suites in JavaScript, improving reliability, scalability, and regression coverage.
- Built and maintained Jenkins CI/CD pipelines, reducing manual deployment time by 10%.
- Debugged regression and smoke suite failures, cut QA cycle failures by 20%.
- Collaborated with cross-functional teams, accelerating feature delivery by 15% Insuring high-quality software.

Associate Software Engineer | Open Policy | Toronto **May 2025 - Dec 2025**

- Developed scalable backend services in Swift to support iOS applications; reduced API response times by 35%.
- Architected and optimized data models, improving app performance and data retrieval efficiency by 25%.
- Integrated backend systems with iOS client features, increasing reliability and reducing crash rates by 20%.
- Partnered in a fast-paced startup to ship high-impact features, accelerating release cycles by 30%.

SKILLS

- **Languages:** C, C++, Python, Swift, Javascript
- **Frameworks:** Next.js, Express.js, React Bootstrap
- **Databases:** MongoDB, PostgreSQL, MySQL
- **DevOps:** Git, Jenkins, GitHub Actions, Agile workflows
- **Automation:** POS automation, Automation Scripting, Regression & Smoke testing
- **Other:** UI/UX design, Figma, Adobe Suite

PROJECTS

Neural-Pilot-Cloning | Python, TensorFlow/Keras, Flask, Socket.IO

- Built an end-to-end behavioral cloning CNN to predict steering angles from raw camera frames in real time.
- Engineered data augmentation and steering rebalancing pipeline; improved model generalization by 40%.
- Optimized preprocessing (ROI crop, 66×200 resize, RGB→YUV), reducing training and inference latency by 30%.
- Deployed a low-latency Flask + Socket.IO inference server for closed-loop autonomous driving in simulation.

Realtime-ML-Smile-Detector | Python, OpenCV

- Built a real-time smile detection pipeline using Haar cascades for face localization and ROI-constraints.
- Reduced false positives by restricting smile detection to detected face regions, improving precision.
- Implemented low-latency frame processing for real-time visualization with bounding box overlays.
- Automated timestamped logging, generating a curated dataset for downstream ML experimentation.

SSH Login Automation | Python, Tkinter, Bash, Windows Batch, sshpass, PuTTY/plink

- Developed a cross-platform SSH automation tool to streamline secure server access.
- Automated terminal (ssh/sshpass, plink) and FTP (FileZilla) login workflows, reducing manual authentication steps.
- Engineered hybrid scripting architecture to support both Unix-based and Windows environments, demonstrating systems-level automation and toolchain integration.

EDUCATION & AWARDS

AdvancedDiplomainComputerProgramming and Analysis | Expected Graduation: APR 2026

- Two-time recipient of the **President's Honor List** for outstanding academic achievement. Relevant Coursework: Data
- Structures and Algorithms, Object-Oriented Programming, Web Programming Tools and Frameworks, Advanced Database Services, Software Testing, Software Analysis and Design