Talhah Abid

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TECHNICAL SKILLS

Languages: HTML, CSS, Python, Java, JavaScript, TypeScript, MySQL, MongoDB
Frameworks: Express.js, Node.js, Next.js, React, Tailwind, FastAPI, Flask
Developer Tools: Bash, Docker, Git, Linux, Hugging Face, WebSockets

EDUCATION

Toronto Metropolitan University   Expected: May 2028
Bachelor of Science (Honours) in Computer Science Co-op | CGPA: 4.14/4.33   *Toronto, ON*
- **Courses**: C/Linux/C++, Web Development, Data Structures, Software Engineering, Operating Systems
- **Awards**: 90%+ Entrance Award, Faculty of Science Dean's List (2023 - 2025)

EXPERIENCE

Rule Engine Developer   Apr 2025 - Jun 2025
Quotograph   *Toronto, ON*
- Developed a multithreaded Python engine to automate architectural compliance checks against the OBC, cutting manual labour by 85% through real-time violation detection and design recommendations
- Utilized Test-Driven Development with unittest to build spatial validation logic, reducing unexpected errors by 60%, accelerating debugging, and improving system reliability
- Took initiative to lead cross-functional discussions that aligned implementation with zoning goals, enhancing collaboration and enabling scalable support for 10+ bylaws

Full Stack Developer   Jan 2025 – Mar 2025
S K Pest Control Inc.   *Toronto, ON*
- Collaborated with a developer to design and launch a React + Flask booking system and admin dashboard, improving appointment management efficiency by 30% and virtually eliminating scheduling conflicts
- Integrated JWT-based authentication with role-based access control, securing customer data and separating admin and user privileges to prevent unauthorized access
- Improved customer experience by designing a smart scheduling system with automated email notifications, enabling real-time appointment confirmations and reminders, cutting no-show rates by 25%

PROJECTS

AutoApply.ai | *TypeScript, Next.js, FastAPI, Selenium, Docker, Hugging Face*
- Automated the full pipeline of generating and submitting tailored resumes and cover letters to the TMU Co-op portal, reducing manual effort by 90% and accelerating the application process
- Utilized LLMs via Groq API with advanced prompt engineering techniques like few-shot and chain-of-thought prompting, resulting in consistent formatting and higher-quality applications
- Integrated pre-trained resume screening models to score relevance and provide contextual feedback, enabling an iterative feedback loop that refined resumes until reaching 70% ATS compatibility
- Leveraged containerization and a pdflatex pipeline, delivering a portable solution across environments

TMUber | *Java*
- Created a ridesharing and food delivery platform, successfully processing over 100+ test cases including user and driver registration, location validation, fare calculation, and dynamic ride assignment
- Utilized diverse data structures, including Linked-Lists, Maps, Sets, Trees, and Queues, optimizing system performance and ensuring scalable and efficient computational architecture
- Optimized 6 key algorithms including shortest path finding, fare calculation, and driver matching, while applying Object-Oriented Principles for modularity and abstraction

CityFix | *MongoDB, Express.js, React, Node.js, Tailwind*
- Built a city-wide issue reporting system using Agile methodology, completing 20+ user stories across 3 sprints, contributing to backlog grooming, and maintaining steady progress to ensure timely completion
- Created 10+ RESTful API endpoints with JSON payloads, implemented robust error handling and logging, and used Bash scripting for efficient file management and system maintenance
- Participated in sprint planning, daily stand-ups, and retrospectives to align deliverables with stakeholder requirements, leveraging Git and GitHub for version control, code reviews, and collaborative development