Shams Haroon

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EDUCATION

Ontario Tech University   **Expected Graduation: May 2027**
Bachelor of Science, Computer Science   *Oshawa, ON*
- **Relevant Coursework**: *Data Structures & Algorithms, Computational Science, Computer Architecture*

EXPERIENCE

Shopify   **May 2025 – Present**
Software Engineering Intern | Rails, GraphQL, MySQL, GCP, React   *Toronto, ON*
- Built a webhook proxy system processing **$8B+** in transactions, cutting API calls by **20%**.
- Implemented multi-platform authentication and a zero-downtime strategy affecting **1000s** of organizations.
- Architected multi-shop billing infrastructure, expanding the market by **15%** and enabling **$100M+** in revenue.
- Designed an accurate event aggregation system, preventing **+1M** duplicate charges.
- Led critical P2 billing project to **85%** completion ahead of schedule, saving **2 weeks** of development time.

University Of Toronto   **Sept 2024 – May 2025**
AI/ML Research | React.tsx, Python, Pytorch, Jupyter   *Toronto, ON*
- Spearheaded development of interactive React UI enabling real-time manipulation of NLP model parameters, decreasing model training time by **15%** through optimized user feedback loops and visualization tools.
- Integrated **Hugging Face** models with reinforcement learning and annotator feedback, improving translation accuracy.
- Developed analytical dashboards that streamlined error analysis workflows, increasing efficiency by **12%**.

Ontario Tech Racing   **Sept 2024 – May 2025**
Software Developer | React.tsx, Python, C++, FastAPI   *Oshawa, ON*
- Developed a dashboard for comparing CFD cases, streamlining data analysis across job simulations by **%10**.
- Optimized codebase, reducing troubleshooting time by **30%** through more efficient error detection.

Headstarter AI   **July 2024 – Sept 2024**
Software Engineer Fellow | Next.js, React, Python, Flask   *Long Island City, NY*
- Built an AI-powered scheduling tool with activity recommendations, streamlining event planning for **100+** fellowship users.
- Fixed **20+** backend bugs in **Flask** and **Python**, cutting API failures and boosting system reliability.
- Collaborated with cross-functional fellows to design and ship features under weekly sprint deadlines, improving team delivery speed by **25%**.

PROJECTS

volt! | Swift, SwiftUI, Python, OpenAI, FastAPI, MCP
- Developed **volt!**, a productivity tool for MacOS, reducing task times by over **50%** for users and organizations.
- Promoted a waitlist, achieving over **50+** early access sign-ups.
- Engaged with **3+** VCs for strategic growth opportunities.
- Integrated robust **MCP** for enhanced user functionality and flexibility, enabling easier task delegation.

Course Availability Notifier | Python, Selenium, Twilio, APScheduler, MCP
- Pioneered a **Python CLI tool** that revolutionized course availability monitoring by sending instant **SMS alerts**.
- Harnessed **APScheduler** to seamlessly automate the scheduling of intensive course tracking tasks
- Amplified tool capabilities with cutting-edge **MCP**, enabling unparalleled user flexibility and robust data handling.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, JavaScript, TypeScript, SQL, Ruby, GraphQL, Swift
Frameworks: React, Django, Flask, Next.js, FastAPI, MySQL, PostgreSQL, Rails, TailwindCSS, Selenium
AI/ML: HuggingFace, RAG, LangChain, OpenAI API, Pandas, NumPy
Developer Tools: Git, Slack, Azure, GCP, Postman, Figma, AWS, Graphite, Cursor, Claude Code