Zunayed Ahmed

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Technical Skills

Languages: Python, C/C++, SQL, JavaScript, HTML/CSS
Frameworks & Libraries: FastAPI, Flask, Django, Tailwind CSS, pandas, NumPy
Data & Automation: SQLite, Excel, REST APIs, Power Automate, AI Builder, LLM integration
Infrastructure & Tools: Ubuntu Linux, Docker, Nginx, Microsoft Entra ID, Git/GitHub, Confluence

Experience

Software Automation Engineering Intern Jun 2025 – Present
Communications & Power Industries (CPI) *Georgetown, Ontario*

- Develop internal applications and workflow automation for engineering, supply chain, and program management, translating operational requirements into production software.
- Own software delivery from architecture and database design through security reviews, deployment, and user acceptance testing in collaboration with business stakeholders and IT.
- Consolidate data from multiple databases, enterprise systems, and existing reports into Excel reports used by VPs and the Division President.
- Create and maintain Confluence documentation for internal applications and automation workflows.
- Led the Canadian division's PFAS submission and supported REACH compliance; received a **CAPEX Award for Operational Excellence** from the Division President for delivering the federal submission on time.

Mobile & Smart Living Solutions Advisor Sep 2024 – Jan 2025
Best Buy Canada *Toronto, Ontario*

- Configured mobile devices, transferred customer data, and advised customers on phone plans and smart home device integration.

Computing Solutions Advisor Sep 2023 – Jan 2024
Best Buy Canada *Markham, Ontario*

- Troubleshot computers and peripherals and recommended hardware configurations based on customer requirements and budgets.

Projects

Partwise – Internal Engineering Platform *CPI*
Python, FastAPI, SQLite, Tailwind CSS, JavaScript, Docker

- Independently designed and developed Partwise, a central platform for internal tools, including on-demand BOM lifecycle analysis that replaced weeks-long quarterly manual reviews.
- Integrated PLM and ERP systems with the SiliconExpert API to retrieve BOM structures and current lifecycle information for engineering, supply chain, and program management.
- Containerized and deployed Partwise with Docker on a self-managed Ubuntu Linux VM behind Nginx; implemented Microsoft Entra ID authentication and automated dependency vulnerability scans.

AI-Assisted Purchase Order Automation *CPI*
Power Automate, AI Builder, LLM integration, Excel, JDE ERP

- Developed a workflow with another intern to process **1,000+ purchase orders monthly**, with approximately **30 routed to manual review**, replacing daily document review and manual logging.
- Trained an AI Builder extraction model for customer formats representing approximately **80% of PO volume**; used general models and LLM calls for remaining formats.
- Flagged conflicting quantities and prices across documents; automated Excel logging, JDE order-entry progress tracking, and daily reports for VPs and the Division President.

Education

Seneca Polytechnic Toronto, Ontario
Bachelor of Engineering (Software Engineering) *Expected May 2027*