Abhishek Paul

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Education

Toronto Metropolitan University (Formerly Ryerson University)   Sep 2021 – May 2026
Honours Bachelor of Science in Computer Science, Co-op | CGPA: 3.85/4.33   *Toronto, ON*
- **Relevant Courses**: Data Structures and Algorithms, Operating Systems, Discrete Structures

Skills

Languages: Python, Java, Javascript, Powershell, Bash, SQL, C#, C, HTML/CSS, Lisp, Haskell, Rust
Frameworks: Node.js, Express.js, Flask, Spring Boot, Bootstrap
Software and Tools: Azure, AWS, MSSQL, Git, Docker, API Development , Beautiful Soup, Pandas, Selenium, SDLC, CI/CD Pipeline
OS: Linux (Ubuntu, RHEL, Debian), Windows (7,10,11), Windows Server (2016, 2019, 2022)

Experience

Automation Developer (Co-op)   Sep 2024 – Present
Ministry of Public and Business Service Delivery and Procurement   *Toronto, ON*
- Developed automations leveraging PowerShell, MS SQL and Azure Resource Graph to identify 1000+ resources impacted by upcoming Azure feature retirements. Consulted with 30+ clients to assess impact and implement mitigation strategies, ensuring seamless transitions and minimizing disruptions to production applications.
- Led a team of 3 co-op students to assist with Azure patching compliance by resolving 100+ VM break/fix issues. Identified patterns in Linux and Windows VM failures through internal log analysis, improving overall system reliability and efficiency.
- Developed an automation workflow with Bash, PowerShell, Azure DevOps, and MSSQL to audit Azure VM password compliance. Used a CI/CD pipeline for monthly reports, enhancing security and alignment with organization standards.
- Consulting with clients regarding inquiries about Azure resources, including issues, failures, and configurations, ensuring clear communication and minimizing downtime for timely issue resolution.
- Created documentation for scripts and processes to improve clarity and improve knowledge transfer.

Solutions and Smart City Analyst (Co-op)   Sep 2023 – April 2024
City of Brampton   *Brampton, ON*
- Developed automated testing scripts using Python, Selenium, and Postman for web applications, covering 200+ scenarios. Reduced reliance on manual testing and cut test times by 40%.
- Led a team of 4 co-op students to manage testing and automation projects, ensuring deadlines were met.
- Automated and maintained 150+ API test cases with Javascript and Postman for a city-wide POS application, ensuring data accuracy across back-end platforms and streamlining the testing process.
- Conducted multiple comprehensive regression testing cycles with 500+ test cases for city-wide POS and permit platforms, ensured seamless integration of updates and delivered stable, reliable software.

Projects

Hoop Stats | *Python, JavaScript, Azure, Docker, MySQL, Azure DevOps*
- Developed an API ("Hoop Stats") using Python libraries Beautiful Soup and Pandas to scrape and process live data from Basketball-Reference.com, displaying all data in a Node.js web app.
- Deployed and containerized the app using Docker, with both the Node.js app and MySQL server hosted on Azure.
- Configured firewall rules to restrict access between the API and the database, ensuring secure communication.
- Used Azure DevOps to automate the CI/CD pipeline, streamlining the build, test, and deployment processes for continuous integration and delivery.

Spotify-Stats | *Javascript, Node.js, Express.js, HTML/CSS*
- A music stats app that utilizes the Spotify API to display users' top artists, top tracks, and recently played content across various time frames.
- Created an Express server that processes API GET and POST requests, formatting the data for the front end.
- Implemented server-side routing for the management of all user requests, alongside integrated OAuth 2.0 authentication for secure access to user data.

Gramm.AI | *Java, JavaScript, Spring, Bootstrap, OpenAI*

- Built an AI-powered text editing platform using OpenAI's GPT-Turbo-3.5, providing grammar correction, paraphrasing, and professionalization to enhance writing quality and productivity.
- Utilized Spring controllers and OOP principles to build a reliable back end, enabling efficient API calls to OpenAI.