

KARTIKUMAR PAREKH

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EDUCATION

Hons. Bachelor of Computer Science (Co-op)

St. Catharines, Ontario

Minor in Mathematics

April 2025

Brock University

Grade: 3.4/4.0

Relevant Studies: Advanced Data Structures & Algorithms, Database Management System, Advanced OOPs

Scholarships: Brock Entrance Scholars Award

TECHNICAL SKILLS

- **Programming Languages:** Java, C/C++, HTML/DOM/CSS, MIPS Assembly, Python, VBA, PHP, Typescript/JavaScript
 - **Frameworks & Tools:** Linux, Garuda, Ubuntu, Android Studio, DevOps, Cloud, LATEX, Web Application Testing, IOS/Android System Programming, React/ React Native
 - **Database:** MySQL, PostgreSQL, SQLite, Redis, MongoDB
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WORK EXPERIENCE

JUNIOR SYSTEM ADMINISTRATOR CO-OP

May 2024 - Present

Ontario Ministry of Transportation/ Ministère des Transports de l'Ontario

- Assisted in the maintenance and administration of Windows and Linux servers, ensuring 99.9% uptime and reliability.
- Monitored system performance and conducted regular backups to prevent data loss.
- Implemented and managed Active Directory, including user account creation, group policy configuration, and access management.
- Provided technical support and troubleshooting for hardware and software issues to over 200 end-users.

COMPUTER SCIENCE DEVELOPMENTAL STUDENT CO-OP

January 2023 – August 2023

Ontario Power Generation

- Learning new tools, languages, frameworks as needed to support project requirements
- Creating and updating website content, including text, images, and videos as well as troubleshooting them for issues and working with team to implement solution
- Proficient in VBA scripting Excel: Developed and implemented VBA scripts to automate tasks and improve efficiency in Excel. Experienced in creating macros, designing user forms, and building various types of Excel models.
- Assisting with website design and layout, including creating wireframes and mock-ups
- Collaborating with designers, developers, and other team members to ensure that requirements are met

GOOGLE DEVELOPER STUDENT CLUB LEAD

July 2022 – July 2023

Brock University

- Attending educational events hosted by Google and gaining learnings of new fields of technology
 - Growing my community, developing professional relationships by promoting this club at most
 - Applying all the learnings to build solutions for real local and global issues which could solve severe problems and disasters
 - Organizing virtual and in-person events for on-campus students and gaining mentorship from Google by connecting the club to the students at Brock University
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PROFESSIONAL CERTIFICATIONS

- **Certified Ethical Hacker (C|EH)** *February 2021 – February 2024*
Cybersecurity India
- **Certificate in Penetration Testing and Digital Forensics** *March 2020 – April 2021*
Cybersecurity India
- **Programming with Java, C, C++** *May 2020 - March 2021*
Bitnet Education for Software Technology
- **Mastercard Cybersecurity virtual experience program on Forge** *February 2024*
 - Completed a job simulation where I served as an analyst on Mastercard's Security Awareness Team
 - Helped identify and report security threats such as phishing
 - Analysed and identified which areas of the business needed more robust security training and implemented training courses and procedures for those teams
- **AIG Shields Up: Cybersecurity virtual experience program on Forge** *February 2024*
 - Completed a cybersecurity threat analysis simulation for the Cyber Defence Unit, staying updated on CISA publications.
 - Utilized Python skills to write a script for ethical hacking, avoiding ransom payments by brute forcing decryption keys.

PROJECTS

Automated Simulator Booking System (Co-op Project) *August 2023*

Technologies: Microsoft Power Apps, Power Automate, SharePoint

- Developed a low-code simulator booking system using Power Apps to streamline reservations for faculty.
- Implemented Power Automate for workflows, such as email notifications and status updates and Integrated SharePoint for data management and security.
- Created administrator controls for managing users and simulator settings.
- Collaborated with the co-op team to gather requirements, test, and deploy the application.

Personal Website | kartik-parekh.me

February 2024

Technologies: Git, HTML, CSS, JavaScript, Web Hosting

- Designed a responsive, interactive website using HTML, CSS, and JavaScript, optimized for various devices and search engines (SEO).
- Utilized Git for version control and hosted the website on GitHub Pages, leveraging free hosting services for university students.
- Registered a custom domain through a student-friendly registrar and linked it to the GitHub repository for seamless access. Continuously update and maintain the website, reflecting my evolving skillset and experience.

Online Examination System

February 2024

Technologies: PHP, HTML, CSS, JavaScript, MySQL, React

- Created a web-based online examination system that allows teachers to create and manage quizzes, and students to attempt these quizzes online.
- Implemented features such as user registration, login, quiz creation, and result generation.
- Ensured security and data integrity by using prepared statements and input validation.

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VOLUNTEERING AND LEADERSHIP

- Canada Games 2022 (Technology Crew)
- Brock University Students Union (Badger fest)

August 2022

September 2022