

BIPON ROY

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EDUCATION

Western University

Specialization in Computer Science, BSc

Sept. 2020 – May 2025

London, Ontario

Courses: Data Structures and Algorithms, Computer Architecture, Software Tools, Databases

SKILLS

Languages: Java, Python, JavaScript, HTML/CSS, JQuery, C, Kotlin, SQL

Frameworks/Libraries: React, Node, Express, APIs, MongoDB, Bootstrap, Isotope, BCrypt

Developer Tools: Git, NPM, VS Code, Eclipse/SWT, PyCharm, Android Studio/SDK, Vim, RStudio

Certifications: Full Stack Web Development

EXPERIENCE

Davies Ward Phillips & Vineberg LLP

May 2024 – June 2024

IT Intern

Toronto

- Delivered support for hardware and software issues, adeptly resolving user problems and minimizing downtime
- Facilitated system maintenance, efficiently managed user accounts, performed software updates, and upheld stringent network security standards
- Collaborated with the IT team on strategic projects, significantly contributing to planning, implementation, and meticulous documentation

Jennifer Kominek Interior Design

May 2022 – Sept. 2022

Web Developer

Toronto

- Used a website builder for modular design, enabling reusable components and easier updates, improving maintainability and scalability
- Incorporated SEO practices and analytics, utilizing algorithms to boost site visibility and track user behavior
- Ensured security by configuring HTTPS, implementing secure authentication, and performing vulnerability assessments to protect user data

Danforth Robotics

Sept. 2018 – May 2020

Software Engineer

Toronto

- Designed and implemented advanced algorithms for autonomous navigation, leveraging machine learning techniques to enhance obstacle detection and avoidance
- Integrated various visual sensors within the platform, optimizing data acquisition and processing for real-time decision-making
- Optimized remote control precision through strategic codebase modifications, ensuring accurate responses

PROJECTS

Country Statistics Board

- Developed a React dashboard for real-time country data, ensuring seamless interaction and updates
- Used advanced JS frameworks to create a dynamic, user-centric interface, enhancing overall engagement
- Optimized API integrations for real-time data flow, ensuring prompt and accurate updates

Cipher Encryption Tool

- Implemented substitution and Caesar shift algorithms, reducing time complexity to $O(n)$ for improved efficiency
- Added random seed generation feature for custom encryption keys, enhancing versatility and cryptographic strength

Emergency Alerts Monitor

- Employed the Android Development Kit to simulate pre-deployment testing for hardware and operating systems
- Performed local prototype testing on hardware for performance validation and seamless user interaction
- Leveraged Kotlin's modern features for enhanced code readability and maintainability, ensuring efficient development and scalability

INTERESTS

Sports: Snowboarding, Hockey, Skateboarding, Golf, Basketball, Badminton

Other: Guitar, Chess, Photography