

BIPON ROY

✉ biponroy47@yahoo.com ☎ 647-570-3728

🐙 github.com/biponroy47 🖥 biponroy.netlify.app 🔗 linkedin.com/in/biponroy

SUMMARY

A driven software developer eager to apply modern solutions to emerging software industries with a passion for learning new technologies, solving complex problems, and automating processes to increase productivity.

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

SKILLS

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

Frameworks/Libraries: React, Node, Express, Axios, REST, MongoDB, Mongoose, Docker, Lodash, Bootstrap, Isotope

Developer Tools: Git, NPM, VS Code, ESLint, Nodemon, Postman, Flyctl, Eclipse/SWT, PyCharm, Android Studio/SDK, Vim

Certifications: Full Stack Web Development (University of Helsinki - Current)

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

EDUCATION

Western University

Sept. 2020 – May 2025

Bachelor of Science, Computer Science

London, Ontario

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