ROBERT MINDO

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Skills

- Golang | Python | C++ | C | JavaScript | MSSQL | Express | Git | React
- Cloud Computing | CI/CD | Unit Testing | OOP | Docker | Kubernetes
- Microservices | Distributed Systems | Backend

Experience

Software Engineer, Intern **The Tor Project** *Remote* **12/2022 - 04/2023**

- Designed and implemented a proxy leak detector using **Golang**, **C**, and **Shell** for detecting and preventing proxy leaks in the Namecoin and Tor ecosystems.
- Completely automated testing by creating test cases and scripts to ensure the reliability and accuracy of the tool.
- Integrated the tool into the existing codebase, ensuring that it was compatible with other tools and that it did not introduce any new security risks.
- Impacted the organization's network security and helped to identify and prevent potential data leaks, contributing to the organization's overall security posture.
- Detected previously unknown vulnerabilities and provided additional layers of security to the system.

Software Engineer, Intern **PineBerry** *Remote* **07/2022 - 10/2022**

- Designed and implemented a pricing software that calculated costs, tracked payments, and generated PDF receipts, leveraging my expertise in **Javascript** and **Python** programming languages.
- Wrote extensive unit and end-to-end UI tests with **Jest** and **Playwright**, which served as the team's primary accessibility reviewer.
- Scripting API calls using **JavaScript** and built a complete library of reusable **React** components for user input and interaction.
- Contributed to the startup's bottom line by improving the accuracy and speed of pricing, billing, and payment tracking, ultimately leading to increase customer satisfaction and revenue.

Software Engineer, Intern **TNTU** *Ternopil, Ukraine* **06/2021 - 09/2021**

- Played a key role in developing a web scraping tool that made support programs accessible to students using **Python** and **Javascript**.
- Designed and implemented the web scraping algorithms using **Python**, collaborating with team members to ensure accurate and timely extraction of data and integration of the data into a database for easy access and analysis.
- Completely automated updates to the tool to ensure that information remained current and accurate.
- Assisted in building a backend **RestAPI** with **Express** for **Node.js**, using Sequelize to interface with a **MariaDB** database.
- Improved the accessibility of support programs for students, empowering them to make informed decisions about their extracurricular activities, leading to improved academic performance and overall student success.

Education

Bachelor of Science **TNTU** *Ternopil, Ukraine* **08/2020 - 08/2024**

Major in Mechanical Engineering

- Experience developing and debugging software for embedded systems, such as microcontrollers and sensors.
- Skilled in programming and interfacing with microcontrollers, including Arduino and Raspberry Pi.
- Experience working with sensors and actuators commonly used in robotics and automation applications, such as motors and encoders.

Projects

- Heteronculous-horklump**:** Designed and developed a Proxy Leak Detector in Golang ensuring memory safety. (Golang, C, Shell).
- U-root (Open-Source Contributor)**:** Improved u-root's address extraction system for IPV4 and IPV6 addresses and implemented tests. Conducting code reviews and providing constructive feedback to ensure code quality and maintainability.

Mentorship

- **Teaching Assistant:** Taught engineering concepts. Guided students through problem sets and numerical computing in MATLAB and Mathematica. Mentored 38 students in an accelerated intro class, holding office hours remotely >2.5h/week across a 12h time zone difference

Others

- **Certificate of Google Data Analytics**: Fundamental data analysis skills and tools **(03/2022)**
- **Certificate of AWS Machine Learning Foundations**: Basic machine learning concepts and techniques, as well as AWS tools **(08/2022)**