ERIC MARCANTONIO

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EDUCATION

York University   Toronto, Canada
Bachelor of Arts in Computer Science   *Aug. 2018 – Sep. 2022*
- Founded the first Security Club at York University, with over 100 members joining in 3 months
- Teaching Assistant for Mobile Computation (EECS 1022)- teaching and mentoring students new to programming

EXPERIENCE

Software Engineering Intern, Production   May 2022 – Aug. 2022
Shopify   *Remote*
- Successfully championed a project focused on stopping DDoS attacks on key infrastructure, leveraging Lua, Ruby and OpenResty NGINX and distributed memcached instances
- With virtually no prior experience, wrote, pushed and tested Lua middlewares to virtually all production Kubernetes clusters in less then 3 weeks in the position
- Preformed security audits on internal routing systems, and proposed, designed and built secure and scaleable replacements across 100's of clusters

Software Engineering Intern (Security)   Sep. 2021 – Present
Deloitte   *Toronto, Canada*
- Led the creation and design process of a new platform with a team of business analysts and software engineers to create scalable backend services (Express.js, PostgreSQL, TypeScript, GraphQL, Microsoft Bot Framework) deployed on public cloud infrastructure (Docker, Azure), administrative dashboards (React), and cross-platform mobile applications (Kotlin, React Native) with edge-compute NLP (Tensorflow)
- Decreased Incident Response turnaround time by 20%, recommending actions based on past incidents to assist IR Responders in the field
- Created a custom internal Speech Recognition Model, packaged as a React Native Module for IOS and Android
- Placed 1st place in an internal AI based hackathon; developed a disaster solution with an ROI of over 150%

Software Development Intern   May 2021 – Aug. 2021
BMO Financial Group   *Toronto, Canada*
- Placed 1st in the BMO Innovation challenge, created, pitched, and lead a team of 9 interns to build an end-to-end testing solution saving the bank over $1.3 million per year, with a ROI of over 2000%
- Reduced allocation requirements by 50% by creating buffered decryption of large S3 objects on Lambda
- Increased development efficiency by 30% through the modification of multiple ETL pipelines, written in Python, focused on cleaning and data aggregation

TECHNICAL SKILLS

Languages: Golang, TypeScript/JavaScript, Python, Ruby, Lua, Java, Kotlin, C, SQL(MySQL/MariaDB/Postgres)
Frameworks: Gorrila, Fiber, React, React Native, Express.js, Jest, k6, Flask, JUnit, Android/IOS
Developer Tools: Git, Docker, Kubernetes, AWS, Google Cloud Platform, Azure
Other Tools: Tomcat, NGINX, Apache Server, Kali Linux, Burp Suite, Nessus, OSINT

PROJECTS

go-ransom | *Go, VirusTotal*   May 2018 – May 2020
- Custom ransomware bypassing 90% of AV's on VirusTotal, leveraging AES-CFB for concurrent encryption

merchant | *Go, TypeScript, React, Express.js, GraphQL, REST, MariaDB, Docker, AWS SAM*   May 2018 – May 2020
- A production ready e-commerce store leveraging microservice event-driven architecture deployed on AWS (API Gateway, Lambda, RDS, CloudFormation and EC2)

CERTIFICATIONS

AWS Solutions Architect Associate *Amazon Web Services Training and Certification*   Feb. 2022
Security+ *CompTIA*   Jan. 2021