Ziven Rokhit

416-841-0067 | <u>zrokhit@uwaterloo.ca</u> | zivenrokhit.github.io | linkedin.com/in/zivenrokhit | github.com/zivenrokhit

EDUCATION

University of Waterloo

Sept 2022 - Apr 2027

Bachelor of Mathematics with a Minor in Computer Science

Waterloo, ON

Relevant Courses – Data Structures & Algorithms, Object–Oriented Programming, Proofs

EXPERIENCE

Software Engineer Intern

Sept 2024 - Dec 2024

Ford Motor Company

Dearborn, MI

- Led on-call production support for **FordPro.com**, leveraging **Datadog**, **GCP**, and **Tekton** to monitor cloud infrastructure and ensure maximum uptime for **55,000+** daily users.
- Developed a system using **TypeScript** and **React** to facilitate data privacy settings updates for over **250+** Ford Fleet Managers across Europe and North America.
- Performed real-time cache invalidation for 10K+ entries using JavaScript to synchronize Redis cache.

Software Architect & Engineer

Jan 2024 – Present

Course Clutch.com

Toronto, ON

- Developed and deployed a RESTful API using Python, FastAPI, and AWS Lambda serverless functions, optimizing it for scalability and handling 40K+ users with reduced infrastructure costs.
- Designed a NoSQL database using **DynamoDB**, containerized cron jobs with **Docker**, and orchestrated the system with **AWS EventBridge**, resulting in a **33%** reduction in customer wait times.
- Integrated Stripe API to embed a secure payment system within a React frontend, ensuring safe transactions.

Software Engineer Intern

Jan 2024 – Apr 2024

TD Bank Group

Toronto, ON

- Developed client onboarding software used by 20,000+ customers daily, built with Java, Spring and React, integrating with over 150 enterprise APIs and microservices, creating a seamless customer experience.
- Automated a tedious deployment process using **Bash scripts**, integrating with **CI/CD** pipelines on Azure, reducing team deployment time by **3** hours per week.
- Engineered a webpack caching system with the **Spring Framework** and **Craco** to asynchronously update customer app versions, leading to a **15**% improvement in client satisfaction rates.

Fullstack Engineer Intern

May 2023 – Sept 2023

Doctalk Inc

Toronto, ON

- Developed an ad rotation system using **TypeScript** and **React**, boosting on-site advertisement views by **300**%.
- Migrated the production database using a Python ETL script, achieving a 25% reduction in memory usage.
- Crafted 10+ custom React components to common SDK, simplifying codebase, reducing compilation time and improving maintainability.

Projects

Toronto Crime Forecasting Model | Python, Pandas, Scikit-learn, ArcGIS

- Collected, cleaned, and encoded 300,000 raw data points using **Pandas**, creating a structured dataset ready for analysis. Experimented with fitting various machine learning models to evaluate their performance.
- Developed an interactive spatial map using **Python** to visualize data and identify key patterns and trends.

RSA Encryption Website | Python, Flask, Cryptography, HTML/CSS

• Engineered a secure API utilizing **Python** and **Flask**, featuring a custom RSA-2048 encryption algorithm developed in collaboration with University of Waterloo mathematics professors.

Chess Engine | C++, Makefile

• Created a C++ Chess Engine featuring a CPU opponent and integrated computer graphics.

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, Java, C/C++, HTML/CSS, SQL

Frameworks: React, Express, Next.js, FastAPI, Flask, Pandas, Datadog, Spring/Spring Boot

Developer Tools: AWS, Docker, Node.js, Tekton, Redis, PostgresSQL, GCP, Linux, Bash, Postman