

# Ziven Rokhit

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## EDUCATION

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### University of Waterloo

Bachelor of Mathematics with Minor in Computer Science, Co-operative Program

- GPA: 3.7/4.0

Expected Jun 2026

Waterloo, ON

## TECHNICAL SKILLS

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

**Frameworks:** React, Node.js, Express, Redux, NextJS, FastAPI, Flask, Pandas, Spring

**Tools & Databases:** AWS, Docker, Redis, PostgreSQL, DynamoDB, Linux, Bash

## WORK EXPERIENCE

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### Ford Motor Company

Software Engineer Intern

Dearborn, MI

Sept 2024 – Dec 2024

- Developed a platform for vehicle telemetry and analytics APIs, **managing 20 million API calls per week**

### [CourseClutch.com](#)

Software Architect & Engineer

Toronto, ON

Jan 2024 – Present

- Engineered a multi-layered REST API using Python and FastAPI, primed to support **+40,000 customers**
- Architected and implemented the complete software solution using AWS (Lambda, API Gateway, EC2) and Docker, resulting in a **75% reduction in server costs**
- Developed AWS Lambda function in Python to interact with DynamoDB and send real-time notifications to users

### TD Bank Group

Software Engineer Intern

New York, NY

Jan 2024 – Apr 2024

- Developed and deployed a client onboarding software used by **20,000 bank employees** daily, with Java/Spring and React, integrating with +150 enterprise APIs and microservices within BFF architecture
- Automated a tedious deployment process using Bash scripts, integrating with CI/CD pipelines on Azure, **reducing team development time by 3 hours per week**
- Prototyped a webpack caching system to asynchronously update customer app versions, resulting in a 15% increase in client satisfaction rates

### Doctalk Inc

Software Engineer Intern

Toronto, ON

May 2023 – Sept 2023

- Crafted 20 custom React components to common SDK, simplifying codebase, reducing compilation time and improving maintainability
- Designed an advertisement rotation system using TypeScript, resulting in a **300% increase in on-site advertisement views**
- Wrote a Python ETL script to migrate data from Redis Graph database to PostgreSQL, leading to a **25% decrease in memory usage**

## PROJECTS

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### [Toronto Crime Prediction Machine Learning 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, facilitating visualizations to identify patterns and trends

### [RSA Encryption Website](#) | Python, Flask, Cryptography, HTML/CSS

- Engineered an API using Python and Flask allowing users to encrypt data with bank-grade security
- Designed and implemented a custom RSA-2048 cryptography algorithm in Python, by consulting expert mathematics professors at the University of Waterloo

### [Chess Engine](#) | C++, Makefile

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