

# Hrithik Shah

LOOKING FOR NEW GRAD OPPORTUNITIES IN SOFTWARE ENGINEERING

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## Skills

**Programming** Python, Java, C#, C++, JavaScript, HTML, CSS, TypeScript, Ruby, SQL, Scala  
**Technologies** AWS, Angular, .NET, Ruby on Rails, React, React Native, Selenium, Flask, Jupyter Notebooks, Postman, Docker

## Experience

### Amazon

Toronto, Canada

SOFTWARE DEV ENGINEER

May 2022 - Aug 2022

- Implemented and launched a notification system that processes over 10k messages daily and reduces latency by 10% for merchant inbound services using Amazon DynamoDB, Lambda, SQS & SNS
- Created a full CI/CD pipeline that monitors the health of the notification system and deploys to regions in NA, EU & FE
- Led design and technical reviews with software engineers and managers to finalize technical specifications and business requirements
- Designed a launch plan and mitigation strategy for the system ensuring no negative impacts to downstream services

### Flinks

Remote

BACKEND SOFTWARE ENGINEER

May 2021 - Dec 2021

- Deployed a new payment system for 1000+ clients by implementing several key features, along with rigorous testing with Octopus Deploy
- Expanded the Connect API to Paypal, Venmo, Robinhood and 10+ banks using .Net and Postman to support login authentication use cases

### SecDev Group

Remote

SOFTWARE DEVELOPER

Jan 2021 - Apr 2021

- Implemented a model of 40+ features that simulated outcomes for COVID relief efforts impacting over 6.5 million people by working alongside the municipalities of LA and Chicago
- Created a scraper using Python & Selenium to close 100+ extremist accounts on social platforms like Facebook, Instagram, Twitter, and TikTok

### Royal Bank of Canada

Toronto, Canada

DATA SCIENTIST

Jan 2020 - Apr 2020

- Improved an entity resolution model to 95% accuracy using scikit-learn to create Word n-gram matrices and applying Logistic Regression
- Reduced fuzzy matching processing times to under 30 minutes for millions of client records using MinHash and Locality Sensitive Hashing
- Presented insights to executives on CERB spending to reduce fraud by 5% during the COVID-19 pandemic

### Uken Games

Toronto, Canada

DATA ANALYST

May 2019 - Aug 2019

- Deployed an autonomous system using Docker that manages \$15,000 of Facebook ad campaigns and reduced 5 hr/week of manual work
- Increased return on ad spend by 10% by developing a tool that forecasts the average lifetime value of a player based on retention

## Entrepreneurship

### Software For Love | Website

Remote

DIRECTOR | CHIEF EXECUTIVE OFFICER (CEO)

Apr 2020 - Jan 2023

- Led 40+ developers, designers, project managers in building web applications for local charities
- Tackled challenges in hiring processes, software development practises and CI/CD to elevate members' unique skills and passions
- Directed 10+ projects, donated \$10000+ to charities and partnered with Snyk and Google for software infrastructure support

## Side Projects

**Spotify-Speech** | 📺/Speech, Created a speech recognition model using DeepSpeech2-like architecture and PedalBoard

**PokeMart** | 📺/Pokemart, Created a marketplace mobile app using React Native, LottieView, and a RESTful API made with Node.js

**Findify** | 📺/Findify, Developed a music recommender using Flask and Spotify's API to generate a score for fuzzy matching

**Hrithik's Notes** | 📺/Notes, Website, Launched a course notes website using React and Netlify improving understanding of material

**Invasion of the Shadows** | 📺/Invasion-Shadows, Built a 2D computer game using Unity to teach students about ancient civilizations

## Education

### University of Ottawa

Ottawa, Canada

BASc IN SOFTWARE ENGINEERING (CO-OP), 3.7 GPA

Sep 2018 - Dec 2022

- Undergraduate courses: Data Structures & Algorithms, Intro to AI & Data Science, Software Architecture, User Interfaces, Software Requirements
- Graduate courses: Topics in AI, Virtual Assistants