

Anirudh Iyer

4TH YEAR COMPUTER SCIENCE

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Education

University of Waterloo BSc IN COMPUTER SCIENCE

Expected : Apr 2021

Relevant Courses Data Structures, Algorithms, Operating Systems, Object Oriented Programming, Databases, Functional Programming, Compilers, Computer Architecture, Program Verification, Graph Theory, Statistical Methods, Security, Quantum Computing

Skills

Languages C++, Java, Javascript ES6, Python, Golang, PHP, Lisp, Bash, C

Technologies React.js, Node.js, Docker, MongoDB, Postgres, TensorRT, Redis, gRPC, Protobuf, Openshift/OKD, Meteor, AWS, Enzyme

Experience

Paravision

Toronto, ON

SOFTWARE ENGINEERING INTERN

May 2020 - Present

- Converted the backend of a high performance, **face recognition C++ SDK** to use ONNX models with **TensorRT**.
- Optimised critical numpy tensor operations by using better underlying data structures.

SelfMade

New York, NY

SOFTWARE ENGINEERING INTERN

May 2019 - Aug 2019

- Created a referral system and targeted onboarding to increase **user aquisition** for SelfMade Collabs **by 400%**.
- Built **REST APIs** in Meteor/Node.js to handle multi-user chat, Instagram giveaways and several other collaboration tools.
- Developed components in React/Redux for user profile creation and brand filtering.
- Implemented end-to-end **email notifications** for SelfMade Collabs using **Amazon SQS** and the SendGrid API.
- Optimized **worker instances** on EC2 to handle over **200%** more concurrent jobs from >50 queues.

Shopify

Ottawa, ON

SOFTWARE ENGINEERING INTERN

Sep 2018 - Dec 2018

- Migrated the Shopify Logistics admin platform from **Ruby on Rails** to a **GraphQL, React.js/TypeScript** stack.
- Implemented a new refunds flow in React that could handle **orders with >1000 line items** and multiple shipping locations.
- Optimized refund query algorithm to **filter out stale data**, reducing data sent to the web client **by 30%**.
- Architected **GraphQL APIs** and client interfaces to allow the editing of orders after creation, the **most requested feature** in Shopify.
- Ensured client security at scale through end-to-end testing with **Enzyme/Jest**.

Mani Wonders

Toronto, ON

WEB DEVELOPMENT INTERN

Jan 2018 - Apr 2018

- Refactored their primary ecommerce portal resulting in **12x faster load times** and an **80% reduction** in redundant data being loaded.
- Built a custom theme in PHP and JQuery for Wordpress containing several ecommerce components.
- Introduced version control management and **drastically sped up developer productivity** by setting up a CI pipeline.

Inksmith

Kitchener, ON

3D DESIGN AND FIRMWARE DEVELOPER

May 2017 - Aug 2017

- Developed an extensible Arduino based robotics framework consisting of low cost, 3D printed parts for educational use.
- Designed a variety of CAD models for various client needs, with optimisations for additive manufacturing.
- Created an extensive curriculum to introduce STEM in K-12 education.

Projects

You Can Get In

React.js Golang, MongoDB
github.com/anirudhi/YouCanGetIn

A web application that provides prospective university students with crowdsourced acceptance averages and other metrics to better understand their fit.

Fairy 15

Unity 3d, C#

A 3D dogfighter with stylized graphics and concurrent 15 client multiplayer.

github.com/anirudhi/Fairy15