

# Han Xiao Chen

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## Skills

### FULLSTACK

node  
react  
gatsby  
graphql  
express  
django  
mongodb  
dynamodb

### TECHNOLOGIES

git  
aws  
jenkins  
redis  
pandas

### LANGUAGES

javascript  
python  
java  
c/c++

## Awards

### EUCLID MATH

#### CONTEST

Certificate of  
Distinction (top 25%)  
University of Waterloo

### CANADIAN

#### COMPUTING COMPETITION

Certificate of  
Distinction (top 25%)  
University of Waterloo

## Education

### UNIVERSITY OF WATERLOO

Candidate for BAsC in  
Computer Engineering  
Cumulative Avg: 85%  
September 2017 to  
April 2022

## Hobbies

photography  
speed cubing  
film making

## Employment

### CAPITAL ONE

Toronto, ON

#### Software Engineer

September 2019 to December 2019

- Led the design, development, and deployment of a telemetry system for internal packages, with features including a CLI tool, REST API, and email service
- Designed and built a REST API to monitor package consumers using serverless architecture on **AWS Lambda** with ALB/Route53 for load balancing and routing
- Developed reusable **React** components with 100% unit test coverage for Capital One's in-house UI library, reducing the size of frontend codebases by up to **60%**
- Configured **CI/CD** pipelines using Jenkins with semantic-release to automate the versioning and deployment of packages

### IBM

Toronto, ON

#### Software Developer

January 2019 to April 2019

- Built a message broker using **Node** and **Redis**, enabling developers to post service-status notifications to the IBM Cloud web console quickly and securely using Slack
- Developed, tested, and maintained new front-end features in React for Open Toolchains, IBM Cloud Platform's DevOps offering used by **20 million** developers
- Enhanced backend **Express** REST APIs to block suspended users from accessing cloud resources, reducing costs related to unauthorized resource consumption

### CLIMAX MEDIA

Toronto, ON

#### Software Development Engineer in Test

May 2018 to August 2018

- Developed and integrated a React application within an existing web portal to sort and organize test cases by priority, speeding up the QA workflow
- Automated testing workflow by writing end-to-end test suites using **WebdriverIO** and **Selenium**, as well as test scripts to verify API responses

## Projects

### MESSENGER INSIGHTS

December 2019

*python • pandas • node • gatsby • graphql*

- Built a Python tool that utilizes **pandas** and **matplotlib** to graph trends in users' Facebook Messenger usage based on parameters provided through the CLI
- Developed an interactive **Gatsby** site to dynamically query and visualize the processed data in an engaging manner

### AUTOCRITIC

January 2019

*python • natural language processing*

- Developed a web application that leverages **sentiment analysis** to predict film ratings, with accuracy averaging within 10% of Rotten Tomatoes scores
- Trained a **logistic regression** model with count vectors using **sklearn** and **nlTK** to identify positive and negative film reviews
- Created a **Django** server that processes search queries for films and utilizes web scraping with html parsing to collect 100+ movie reviews per film

### WATCH ALONG

August 2018

*node • fullstack app • web sockets*

- Built a content consumption platform that allows multiple users to watch online videos synchronously with each other
- Utilized **socket.io** to synchronize client-side video player events with the server to ensure concurrent playback among all connected clients