

ANDY ZHAO

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EDUCATION

University of Waterloo - Bachelor of Computer Science Co-op 2020 - Present

TECHNICAL SKILLS

Front End | React, Angular, JavaScript, TypeScript, HTML, CSS, Kotlin, Swift

Back End | Node.js, Python, C, C++, C#, Java, Django, MongoDB, Redis, PostgreSQL, SQLite, PowerShell, Regex

Testing/Deployment | Amazon Web Services, Azure, Terraform, JUnit, Jest, Selenium, Pytest, Mocha, Chai

Developer Tools | Docker, Git, npm, Postman, Agile Methodology, CI/CD

EXPERIENCE

Software Engineer | Manulife Financial May 2024 - Present

- Building a scalable and secure online platform with Docker and Terraform, Java backend, and React frontend

Software Engineer | EzeeAssist Sept 2023 - Dec 2023

Backend software development for chatbot system

Python | JavaScript | AWS | PostgreSQL | MongoDB

- Developed a **Django** platform from design to execution, encompassing model creation, API development, and custom admin page design
- Automated tedious client onboarding processes with **Django** and **Node.js**, accelerating the onboarding speed by **>97%** and enabling the addition of **200+** clients within 2 months
- Built Amazon **SNS** and **SQS** pipelines along with **30+ REST APIs** to achieve real-time synchronization of critical data updates between various microservices and optimize frontend operations

Application Developer | Allstate Insurance Co of Canada May 2022 - Aug 2022

Backend system and software enhancements

Python | C# | PowerShell | Java | JUnit

- Developed a file processing engine using Python, generating over **3 million** policy documents, saving over **1700 hours** of recurring manual work, and resolving **52k** customer requests to download policy documents
- Scripted service lifecycle management in PowerShell, resulting in significant time savings of several hours (**>2hrs**) per week
- Built **C#** software that digitizes paper documents, utilizing image and text recognition to extract and validate data

Software Developer | Benevity May 2021 - Aug 2021

Multi-feature employee engagement Slack application

Python | AWS Lambda | AWS API Gateway | Terraform

- Independently conceived, designed, developed, and documented first ever **company-wide Slack application** with **Python** dedicated towards increasing employee engagement with charitable causes
- Provided users with a suite of commands that increased employee participation rates in volunteering and charity donations by **28%**
- Utilized **Terraform** to automate the provisioning and management of **cloud infrastructure**

PROJECTS

Ghosted | Website, [GitHub](#)

- Created a **full stack** web application with React, Node.js, and SQLite, that conducts **data analytics** on a user's iMessage and Contacts database
- Designed and implemented **complex queries**, including aggregate, join, subquery, and window functions, to return analytics such as most texted friends and sentiment analysis to gain insight to one's relationships and texting habits

Menu Finder | Website, [GitHub](#)

- Built full stack web application with **React**, **Express.js**, and **MongoDB** to compare, filter, search, and view restaurants and their menu items within the University of Waterloo area