

# ANDY ZHAO

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## EDUCATION

University of Waterloo - Bachelor of Computer Science Co-op 2020-2025

## TECHNICAL SKILLS

**Front End** | React, Angular, JavaScript, 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, Terraform, JUnit, Jest, Pytest, Mocha, Chai

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

## EXPERIENCE

Software Engineer | Manulife Financial May 2024 - Present

Software Engineer | EzeeAssist Sept 2023 - Dec 2023

Backend software development for chatbot system

Python | JavaScript | AWS | PostgreSQL | MongoDB

- Designed and developed the entire **Django** platform from inception to execution, encompassing model creation, API development, and custom admin page design
- Automated tedious manual client onboarding processes with **Django** and **Node.js**, accelerating the onboarding speed by **>97%** and enabling the expansion of **6** to **200+** clients within 2 months
- Built **data pipelines** utilizing Amazon **SNS** and **SQS** to achieve real-time synchronization of critical data updates between various microservices
- Created and integrated **30+ APIs** to facilitate streamlined data management 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
- Built PowerShell scripts to automate service restarts on servers, resulting in significant time savings of several hours (**>2hrs**) per week
- Created software in **C#** 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** to return analytics such as most texted friends, sentiment analysis, and suggestions for who to keep in touch with to gain insight to one's relationships and texting habits

Menu Finder | Website, [GitHub](#)

- Built **React** application to compare, filter, search, and view restaurants and their menu items within the University of Waterloo area