ANDY ZHAO

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EDUCATION

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

EXPERIENCE

Software Developer | JANA Corporation   **Sept 2024 - Present**

Full stack development for risk assessment & data management   C# | .NET | SQL | TypeScript | React | Esri

- Developing a comprehensive risk assessment and data management platform leveraging C#, Entity Framework, SQL, and React, serving **10+** North American natural gas companies

Software Engineer | Manulife Financial   **May 2024 - Aug 2024**

Web app development for operational efficiency   Python | React | Java | Azure | Terraform | Docker

- Led the design and development of a cloud-based web app using **TypeScript** and **React** to streamline data access for Manulife's executive leadership consisting of **6+** teams
- Developed a backend server hosting multiple API endpoints that integrate with JIRA API using **FastAPI**, enhancing operational efficiency with secure, on-demand data access and increasing data retrieval speed by **80%**
- Provisioned Azure Functions with private endpoints using Terraform, configuring secure network setups including virtual networks, DNS zone links, and access restrictions

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

Software Developer | Benevity   **May 2021 - Aug 2021**

Multi-feature employee engagement Slack application   Python | AWS Lambda | AWS API Gateway | Terraform

- Independently concepted, 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%**

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 to provide insights into one's relationships and texting habits

TECHNICAL SKILLS

Languages | Python, TypeScript, JavaScript, C++, C#, C, HTML/CSS, Java, SQL, Kotlin, Swift, PowerShell
Frameworks/Tools | Angular, React, Tailwind, Node.js, Django, MongoDB, Redis, PostgreSQL, SQLite, Git
Testing/Deployment | Amazon Web Services, Azure, Terraform, Docker, JUnit, Jest, Selenium, Pytest, Mocha, Chai