

Yimeng Xie

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SKILLS

Tools and Languages	Python, JavaScript, Typescript, C++, Git, Java, C, Kotlin, C#, Unity, React, SQLite, NodeJS, NestJS, Microsoft Azure DevOps, Azure Language Services, Cosmos DB, Gremlin, SEQ, Racket, Unix shell, HTML, CSS, \LaTeX , Microsoft Office
Technical Knowledge	Functional Programming Paradigm, Imperative Programming Paradigm, Object-Oriented Programming Paradigm, CQRS architecture, building RESTful APIs, Advanced knowledge of algorithms and data structures, Logical and mathematical thinking
Soft Skills	Communication in English and Mandarin, Strong presentation skills, Working under stress, Working with a team

WORK EXPERIENCE

Software Engineering Intern at Cloudspark Labs	Sept 2022 — Dec 2022
<ul style="list-style-type: none">Developed on company's core product, a suite of Microsoft Teams apps are built as microservices that use CQRS architectureReduced query times by multiple seconds through refactoring backend REST APIs to use efficient queries and pagination with continuation tokensRefactored codebase to use core libraries and removed 3 unnecessary dependencies, increasing code maintainability and making future development easierUsed Azure Conversational Language Understanding and Azure Custom Question Answering APIs to build a MS Teams bot that can be configured by users and independently answer questions. Fully completed project within deadline of one monthWorked closely with front-end developers, back-end developers, product manager, and other interns to push new features and fixes to product monthly	

PERSONAL PROJECTS

Tensorflow Twitter Bio Generator	2021
<ul style="list-style-type: none">Gathered over 2MB of Twitter Bios using Twitter API and PythonBuilt and trained Tensorflow machine learning model to continue bio text, trained until loss stopped decreasing around 7.6Built web-based application front-end to generate bio from user-inputted text using Django, CSS, and Bootstrap	
Word Guesser Web Game	2022
<ul style="list-style-type: none">A web game using React for front-end and Firebase as the back-endUsers can authenticate using google, join and create game rooms, and play a simple hybrid of Wordle and Pictionary with their friendsUses Firestore database to store game rooms and user data and facilitate real-time interaction	
Suit Your Job	September 2022
<ul style="list-style-type: none">Created with a team in 36 hours, a web app that allows users to rank jobs using natural language processingBuilt front-end using Flask, scraped over 700 jobs from job sites using SerpAPI and web scrapingLeveraged Co:here's NLP API to compare job similarity to user's ideal job with semantic searchFinalist for best use of Co:here API award in Hack The North 2022	
Unity Games	2019 — 2022
<ul style="list-style-type: none">Created 6 unique and functional games using Unity Engine and C# scriptingUsed object-oriented programming to create modular and robust games that can be easily expanded uponExperimented with simple AI, procedural generation, and singleton patterns for saving dataWorked under time constraint and pressure to complete games for game jams in as little as 2 days	
Android Applications	2021
<ul style="list-style-type: none">Designed and developed a calculator app and productivity app using Android StudioImplemented changing between pocket and scientific modes when phone is held in portrait and landscape orientationsDeveloped productivity app with push notifications for setting timers and SQLite databases for storing tasks on a to-do list for two-day Hackathon	

EDUCATION

Bachelor's Degree in Computer Science, Co-op, Artificial Intelligence Specialization, University of Waterloo	2021 — 2026
Math National Scholarship, University of Waterloo	
President's Scholarship of Distinction, University of Waterloo	
3.98 GPA, 4.00 Math Faculty GPA	
International Baccalaureate Diploma, Maple High School	2021

ACTIVITIES

Member of University of Waterloo Computer Science Club, Data Science Club, and Women in Computer Science	2021 — 2022
Competitive Programming on DMOJ and LeetCode, over 400 problems solved in total	2019 — 2022