David Zhou

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EDUCATION

University of Toronto   Toronto, Ontario
Bachelor of Science in Computer Science, St. George Campus   *Sept. 2021 – Present*
- Arts & Science Co-op Program (ASIP)

EXPERIENCE

Software Developer Intern   May 2024 – August 2025
Environment and Climate Change Canada   *Toronto, Ontario*
- Developed and maintained scalable Java components to process and decode weather data for government use
- Took part in design proposals and conducted code review for various internal components
- Collaborated with full-time developers to deploy and monitor components in production using Jenkins and Docker

Open Source Contributor   May 2024 – Present
cBioPortal for Cancer Genomics   *Remote*
- Contributed to the cBioPortal platform by fixing frontend and backend bugs using Java Spring Boot and React
- Worked with microservice-based architecture in a Dockerized development environment
- Engaged with the community via GitHub Issues and Slack to clarify implementation details

App Developer   September 2023 – December 2023
University of Toronto (Industry Collaboration)   *Toronto, Ontario*
- Worked on a team of 7 with an industry partner to develop a productivity mobile app called Focus Coach
- Developed UI components using React Native and assisted with deployment to the Google Play Store
- Collaborated through Agile sprints, Git workflows, and testing sessions

PROJECTS

Smarter Defect | *Java*   October 2023 - January 2024
- Developed and published a mod for the game Slay the Spire that extends official game content
- Worked with existing frameworks (ModTheSpire and BaseMod) to inject new behaviors into the existing game
- Iterated on the design and balancing through multiple revisions based on testing and peer feedback via GitHub and the modding community

PetPal | *React, Django*   September 2023 - December 2023
- Collaboratively worked with a team of 4 to create a pet adoption website
- Developed dynamic React UI components and RESTful backend using Django, tested using Postman

Starlight Wishes | *Java, React, Django*   October 2022 - December 2022
- Created a full-stack web app as a team of 4, used a React frontend with a Django backend and SQLite database
- Designed and queried relational databases using SQL and Django ORM

COVID-19 Government Stringency Index | *Python*   October 2021 – November 2021
- Collaborated with 3 others to develop a Python app that visualizes COVID-19 infections data over time
- Aggregated all public policies from governments around to world and compared them to their spikes in infections
- GUI developed using Tkinter and data visualized with Matplotlib

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, SQL, Bash, HTML, CSS
Frameworks and Libraries: Spring Boot, JUnit, React, Angular, Django
Tools and DevOps: Git, Docker, Jenkins, Jira, Postman
Relevant Courses: Data Structures and Analysis, Programming on the Web, Software Design, Software Tools and Systems Programming, Introduction to Databases
Certifications: React - The Complete Guide on Udemy by M. Schwarzmüller