

Eddy Yao

Software Developer
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SKILLS

PROGRAMMING

Flavors of C • Python • Java • Haskell
HTML / CSS / JavaScript • TypeScript • Shell

TECHNOLOGIES

Linux • Git • Docker • Kubernetes • Scripting
Tensorflow • Embedded • Testing • OOD / OOP
Firmware • NLP • Operating Systems • VCS

EDUCATION

UNIVERSITY OF WATERLOO

CANDIDATE FOR BACHELOR'S OF COMPUTER SCIENCE

Expected May 2023 | Waterloo, Ontario
Cumulative GPA: 3.9

DISTINCTIONS

2020 UW Math Dean's List (All Semesters)
2018 ECOO CS Competition Finalists
2018 Governor General's Academic Award
2016 IEEE Arduino Challenge Champions

LINKS

GitHub:// [GITHUB.COM/EC-YAO](https://github.com/ec-yao)
DevPost:// [DEVPOST.COM/ECYAO/](https://devpost.com/ecyao/)
LinkedIn:// [EDDY-YAO](https://www.linkedin.com/in/EDDY-YAO)

PROJECTS

NLPY | NATURAL SPEECH PROGRAMMING LANGUAGE

- Wrote transpiler to apply natural language processing and generate code from audio clips
- Trained a deep learning model to recognize and parse natural language into nested expressions
- Implemented several scripts such as "Hello World", a sieve (Eratosthenes), and prime factorization through speech

AR SOAPSTONE | AUGMENTED REALITY WAYPOINT SHARING

- Applied Google ARCore technology to create and share global 3D environments with AR
- Integrated GCP to host and update environments in real-time

SERVIR | JAVA, SQL, NETWORKING, GIT

- Co-developed an online platform for hosting sales transaction advertisements via Android.
- Developed personal server and client APIs to handle communications and back-end functionality.
- Implemented dynamic browsing functionality by creating a dynamic UI which grew with incoming client requests

EXPERIENCE

GOOGLE LLC | SOFTWARE ENGINEER - INTERN

Feb 2020 – May 2020 | Sunnyvale, CA

- Designed integration testing framework to extend testing capabilities to live environments
- Implemented parser to automate config file modification and generation
- Automated service to pull production code to testing environments, removing the need for manual testing on generic builds
- Managed tickets to streamline live deployment processes and improve system visibility for back-end developers

CIENA CORPORATION | SOFTWARE DEVELOPER (CO-OP)

May 2019 – Aug 2019 | Ottawa, ON

- Enhanced system reliability on complex, real-time fiber optics shelves
- Developed data-driven debug tool, enhancing data visibility on run-time
- Implemented structural software design changes to improve code extensibility for complex real-time computing
- Integrated data-driven programming with existing software using Yang data modeling, decreasing required code by over 50%
- Generated test cases under Python framework, ensuring overall sanity of product builds.

INBAY TECHNOLOGIES INC. | ANDROID DEVELOPMENT INTERN

Jul 2017 – Aug 2017 | Ottawa, ON

- Designed Java code for Android applications to support location awareness, allowing for accurate usage tracking for business analytics purposes.
- Updated server APIs to process and handle JSON data between client and server applications.
- Integrated Agile methodologies using Git and Atlassian software, providing thorough documentation and code re-usability.