Celeste Luo

💌 dulldesk@gmail.com | 🈭 dulldesk.github.io | 😱 dulldesk | 🛅 celesteluo

Languages JavaScript, Python, TypeScript, Java, C/C++, PHP, Go, Ruby

Tools & Technologies Node.js, React, Django, AngularJS, PostgreSQL, Docker, AWS, Linux

Education _

Skills _

University of Waterloo Waterloo, ON

• Activities: Women in Computer Science, Cybersecurity & Privacy Institute Student, Capture the Flag

• Courses: Data Structures & Algorithms, Object-Oriented Software Development, C/C++; 3.9 GPA

Experience.

Software Developer, Build & Tools team

BACHELOR OF COMPUTER SCIENCE

Waterloo, ON

PLAYSTATION (SONY INTERACTIVE ENTERTAINMENT)

May 2024 - present

Sep 2022 - Apr 2027

- Optimized startup time from minutes to seconds for hundreds of Jenkins pipelines by fetching config files via the GitHub API
- Automated firewall configuration & deployment by integrating Akamai APIs into a Node.js/TypeScript client library & scripts
- · Developed AWS Lambda function to query off-network resources for security allowlist policy tests

Undergraduate Research Assistant

Waterloo, ON

University of Waterloo • David R. Cheriton School of Computer Science

Sep 2023 - Dec 2023

- Implemented Python SciKit random forest & other deep learning models for network bandwidth prediction research
- Evaluated existing systems on cellular downlink prediction using pandas, numpy, matplotlib, and Jupyter Notebook to process raw datasets and test & train models under different tree parameters

Security Software Developer

(Remote) Waterloo, ON

ISARA CORPORATION

May 2023 - Aug 2023

- Improved data export generation efficiency by 85% by implementing an Express.js module REST API endpoint
- Substantially increased data search and handling speed & capacity to **over 2 million records** by migrating a fundamental component of the technology stack to Elasticsearch within a tight deadline
- Built a modular Jest unit testing system utilizing JavaScript ES6 & TypeScript for maintainable and rapid test creation
- Integrated Elasticsearch into a React/TypeScript search client, with custom data querying syntax and fields using GraphQL
- · Set up automated Docker packaging and PostgreSQL database provisioning scripts with SSL certificate configuration

Site Developer Toronto, Ontario

COMPUTER PROGRAMMING CLUB @ W.L. MACKENZIE C.I.

Sep 2021 - Jun 2022

- Contributed to ctf.mcpt.ca, an online judge for cybersecurity challenges, hosting school-wide and provincial contests with over 100 problems, 375 users & 5000 submissions
- Developed an asynchronous client-facing module in JavaScript to self-administer Docker resources on-demand via REST API
- Designed and built a mobile-responsive user interface using Sass and Python Django class-based views

Honors & Awards ___

Women in Cyber Scholarship

FS-ISAC

Recipient; USD\$10 000, with year-long mentorship from Morgan Stanley Canada's CISO

2024

European Cyber Security Challenge

European Union Agency for Cybersecurity

1st Place (Team Canada) in international bracket, 10th of 34 countries, focus: digital forensics

2023

picoCTF Cybersecurity Competition

Carnegie Mellon University

1st Place in Canada, 3rd worldwide of 7794 teams / 18000+ students, focus: digital forensics

2022

CyberPatriot Cybersecurity Competition

US Air Force Association

1st Place in Canada, 5th worldwide of 5254 teams / 19000+ students, focus: Windows OS security & networking

2021, 2022

Projects_

words-api Dark Docs Express.js API for random words by parts of speech; open source, 30+ stars on GitHub Open source Google CSS Dark theme contributor; 46 000+ installs, 1000+ installs / week



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