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work experience

Backend Developer - Carleton Blueprint

Since 09/2020. Volunteer. 08 Months. Remote.

node.js	mongo	docker	test driven development
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- Implemented and documented over 30 endpoints with **input validation** and **authentication** using the **OpenAPI Specification**.
- Developed unit and integration tests for the endpoints using mock data from Faker.js and SuperTest for HTTP assertions to achieve a **92% test coverage**.
- Optimized Docker images leading to **10 times lower image sizes** and **50% faster builds**.
- Architected a **CI/CD pipeline** that **automated** application testing and deployment.
- Mentored** five backend developers by providing them with helpful resources and **pair programming** with them on their tasks.
- Coordinated **full cycle software development** with an **agile** team of ten developers following **test driven development** practices.

Undergraduate Researcher - Carleton University

05/2020 - 05/2021. Internship. 12 Months. Remote.

node.js	typescript	angular	research and development
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- Prototyped a **first of its kind** non-visual security feedback system using an Apple Watch to give users **real-time security notifications** via haptics.
- Architected a **browser extension** that notified a Node.js server in the event the user visited a website with an invalid or insecure SSL/TLS certificate.
- Developed a series of **web-based games** using Angular and the G-Develop game engine to inform pre-teens about **digital literacy concepts** such as **privacy**.
- Created an **API to manage game assets** from a web dashboard allowing for **rapid prototyping** of the various levels in the games.

Frontend Developer - Carleton University

09/2019 - 04/2020. Internship. 08 Months. Remote.

typescript	angular	user testing
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- Designed and implemented web based simulations using Angular and performed **user testing** to make sure the simulations **met all the requirements**.
- Conserved the school's expenses by **approximately \$40,000 per year** by eliminating the need to purchase third party software.
- Replaced physical lab experiments with **virtual lab experiments** using the simulations allowing students to safely complete the required course work from home amidst the COVID-19 pandemic.
- Followed **Google's style guide** to make it easy for future developers to contribute.

Incoming Software Developer - BlackBerry

Summer 2021. Internship. 04 Months. Remote.

education

Bachelor of Computer Science - Carleton University

Since 09/2019. Expected Graduation Date: 04/2023

11.5 / 12 CGPA (A+)

Dean's Honor List Award, Dean's Summer Research Internship Award, I-CURERUS Award

ask me about

VP Engineering - Carleton Blueprint

Since 03/2020. Remote.

Helping make **tech accessible for non-profits** by overseeing all of our engineering operations and leading a team of developers for **pro-bono**.

Academic Lecturer - Carleton Artificial Intelligence Society

11/2019 - 08/2020. Remote.

Lead weekly workshops on topics such as **data science** and **machine learning** using frameworks like TensorFlow, Pandas and NumPy.

Data Scientist - Carleton University

10/2019 - 05/2020. Remote.

Worked with a **PhD student** to scrape and analyze protein interaction data to **find novel cancer-causing genes** for their PhD research.

Outstanding Teaching Assistant Nominee with an Honorable Mention - Carleton University

05/2021. Remote.

Nominated by **ten students** for my efforts as a TA to create an **inclusive learning environment** where all questions were welcome.

languages and tools

python	javascript	node.js
express	socket.io	mongo
mongoose	graphql	docker

skills and knowledge

version control	testing
test driven development	
object oriented programming	
databases	rest api
devops	

career interests

backend	swe/sde	fullstack
technical product management		