Calla Lu

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EDUCATION

McGill University   Montreal, QC
Bachelors in Computer Science with a Minor in History   *September 2019 – December 2023*
- *Relevant Courses:* Databases, Algorithms, Data Structures, Operating Systems, Distributed Systems, Data Science, Functional & Logical Programming, Algorithmic Game Theory

EXPERIENCE

Datadog   May 2023 – August 2023
Software Engineering Intern (Service Configuration)   *New York City, NY*
- Designed and implemented Rust configuration service from scratch used for monitoring and testing deployments
- Deployed configuration service to production in Kubernetes by building a Docker image and setting up workflow
- Developed Golang client to override configuration data loaded when local path is detected from local environment
- Gathered organization interest in client library and increased usage of clients by 6 teams, an increase of 120%

Quantcast   June 2022 – August 2022
Software Engineering Intern (Audience Insights)   *San Francisco, CA*
- Led the design and development of a cookieless audience insights prototype to counter deprecation of cookie data
- Added functionality to the gRPC microservice to efficiently generate queries and retrieve data from the database
- Integrated the microservice into existing API enabling retrieval of cookieless data based on request types
- Developed a feature flag allowing seamless testing and minimizes chances of affecting the overall functionality

RBC – Royal Bank of Canada   May 2021 – August 2021
Software Engineering Intern (Amplify)   *Toronto, ON*
- Led a team of 3 interns to develop a comprehensive portfolio analysis tool for financial advisors with their clients
- Conducted user interviews and presented accessible wireframes and high fidelity mockups designed using Figma
- Designed and developed an interactive frontend in ReactJS for displaying and modifying portfolio analytics
- Deployed application using Docker which emulated and shortened the production environment during development

RBC – Royal Bank of Canada   January 2021 – April 2021
Technical Systems Analyst   *Toronto, ON*
- Refactored CL scripts on IBM i to detect abnormalities in the operating system facilitating timely issue resolution
- Utilized DB2 WebQuery to customize and produce production-ready system reports for routine system checks
- Optimized legacy code and system monitoring along with proactive maintenance using CL scripting by 32%

Huawei Technologies   August 2020 – November 2020
Technical Human Resources Intern   *Toronto, ON*
- Conducted data collection to determine quality of various Computer Science and Engineering faculties for R&D
- Developed Python scripts using pandas to parse data from Google Scholar, automating 2+ hours of manual work
- Led the development of Python scripts with other interns for validating the consistency and formatting of data files

PROJECTS

Art Portfolio Website | *mySQL, SQL, Typescript, ReactJS, Git/GitHub*   May 2022 – Present
- Designed a website tailored for showcasing and selling digital art, revolutionizing commission workflows for artists
- Conceived an admin dashboard simplifying the process of displaying art pieces and setting dynamic pricing
- Engineered a robust API interfacing with Google Storage Buckets and mySQL for data access and manipulation
- Leveraged Axios for optimized backend communication, dynamically sourcing artworks to enrich frontend displays

TECHNICAL SKILLS

Languages: Rust, Java, Golang, Python, C, C++, SQL, JavaScript, TypeScript, C#
Tools: ReactJS, mySQL, Git, Node.js, Express.js, pandas, numpy, gRPC, Jupyter
Cloud Computing: Amazon Web Services (AWS), Google Cloud Platform (GCP), Kubernetes, Docker