Kha Pham

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Minneapolis, Minn., USA | Winnipeg, Man., Canada

Education

B.S. Computer Science - University of Manitoba   Sept. 2021 - Apr. 2024
Winnipeg, Man., Canada

Relevant Experience

Site Reliability Engineer, Developer Internship - Royal Bank of Canada   May 2023 - Aug. 2023
Toronto, Ont., Canada
- Engineered a monitoring tool to oversee the health of multiple core Dynatrace clusters, implementing automated alerts that notify team members via email and Slack when performance falls below predefined thresholds.
- Developed a Python and Ansible-based automation tool that streamlined the process of managing team permissions by enabling modifications through a single editable file, automatically updating access rights, groups, and tags for employees on the internal GitHub platform

Projects

Hackform, a Hackathon Organization Platform   May 2024 - Present
- Leading the development of a generalized hackathon management platform that allows organizers to manage registrations, ticking, and judging, all in a centralized location.
- Utilized React.js, TailwindCSS, and Vite for the front end, and Kotlin with Maven and Springboot for the backend.

.devHacks Registration Platform   Jan. 2024 - Feb. 2024
- Spearheaded the development of a comprehensive registration platform for .devHacks, enabling streamlined registration for over 150 attendees and facilitating efficient QR code-based check-in for executives.
- Utilized Google App Engine and Python Flask for the webserver architecture, integrating Tally.so's webhooks for seamless registration processing and Notion's API for effective attendee management.
- Continuously updated the server during the 24-hour hackathon to adapt to necessary changes, such as reusing the tickets as lunch vouchers, to keep the event running as smooth as possible.

Borealis - Software Engineering Course Project   Jan. 2024 - May 2024
- Developed an Android application utilizing Java, Maven/Gradel, and HSQLDB that aims to replace the current course and student management system used by the University of Manitoba in order to streamline and it easier for students to register for courses.
- Utilized Test-Driven Development using JUnit Testing and Mockito, though Android Studio.

SpooderSnake-42 - RBC Battlesnake Tournament   July 2023
github.com/Derzz/battlesnek
- Designed and implemented a REST API with a team of RBC Co-Ops to maneuver a virtual snake in the competitive environment of the Battlesnakes platform, culminating in a prestigious top 40 global ranking amidst intense competition.
- Leveraged Python for the core algorithm development, AWS API Gateway for seamless integration and communication, and AWS Lambda for scalable, serverless execution, ensuring high availability and responsiveness under tournament conditions.

Avalibility Finder - HCI Course Project   Jan. 2022 - May 2022
- Designed, prototyped, and documented an interface leveraging HCI principles to streamline the process of finding availability and scheduling meetings for users seeking convenience and efficiency, utilizing Figma, HTML/CSS/JS, and Bootstrap.

Other Experience

CUSEC: Canadian Unviersity Software Engineering Conference   Apr. 2022 - Present
Chair   *Feb. 2024 - Present*
- Led a comprehensive selection process, evaluating over 90 candidates and conducting interviews to successfully build and lead a cohesive team of 25 to plan a national conference.

Director of Logistics   *Feb. 2023 - Feb 2024*
- Orchestrated logistics operations for CUSEC 2024, ensuring effective communication between the conference team and the venue, which was instrumental in the smooth running of an event attended by over 300 software engineering students and professionals.

Director of Sponsorship   *Feb. 2022 - Feb. 2023*

Director of External Affairs - .devClub   June 2023 - May 2024
University of Manitoba, Winnipeg, Man., Canada
- Successfully engaged with industry sponsors, securing funding and the club hackathon, .devHacks, that catered to over 300 students, showcasing strong negotiation and relationship-building skills.
- Hosted a comprehensive workshop on API development and emerging technologies, including Flask, drawing over 100 upper-year students. This initiative not only bolstered their technical knowledge but also significantly increased participation in the subsequent Battlesnake tournament.

Customs Broker - Frontier SCS   June 2022 – May 2023
Winnipeg, Man., Canada

Skills

Programming and Markup Languages: Python, Java, C#, SQL, C, C++, Javascript, HTML, CSS, TailwindCSS, React, Kotlin.

Technologies: Ansible Tower, AWS (API Gateway, Lambda, EC2), CI/CD, Dynatrace, Flask, Gradle, Git, GCP (Compute Engine, App Engine), Jenkins, Linux, Mac, Maven, Microsoft Azure Databases, REST API, Vite.

Additional Skills: Agile, Data Structures and Algorithms, Database Design and Implimentation, Data Mining, Distributed Programming, Consensus Algorithms, Human-Computer Interaction.