Kha Pham

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

Skills

Programming and Markup Languages : Python, Java, C#, SQL, C, C++, Javascript, HTML, CSS.
Technologies: Ansible Tower, AWS (API Gateway, Lambda, EC2), CI/CD, Dynatrace, Flask, Git,
GCP (Compute Engine, App Engine), Jenkins, Linux, Mac, REST API.
Additional Skills: Agile, Data Structures and Algorithms, Database Design and Implimentation, Data
Mining, Human-Computer Interaction.

Education

University of Manitoba   Sept. 2021 - Apr. 2024
Winnipeg, Man., Canada

- B.S. in Computer Science
- Dean's List

North Hennepin Community College   Aug. 2019 - May 2021
Brooklyn Park, Minn., USA

- A.S. Computer Science Transfer Pathway

Relevant Experience

Site Reliability Engineer, Developer Internship   May 2023 - Aug. 2023
Royal Bank of Canada | API Platform and DevOps, Toronto, Ont., Canada

- Skills used: Python, Flask, Ansible, Jenkins, Dynatrace, Agile, SCRUM, Git, GitHub, REST API, HTML/CSS/JS, TypeScript, Redis Server, Databases.
- 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
- Implemented a comprehensive monitoring and notification system that proactively detects, alerts, and facilitates swift resolution of outages and potential issues.

Projects

.devHacks Registration Platform   Jan. 2024 - Feb. 2024
.devClub, Man., Canada

- Skills: Python, Flask, Google Cloud Platform, Git, GitHub, REST API, HTML, CSS, JS, Node.
- 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 - Student Management System   Jan. 2024 - May 2024
Software Engineering Course Project, University of Manitoba, Man., Canada
- Skills: Android development, Java, Gradle, Maven, JUnit, Mockito, HSQLDB, Agile
- Developed an Android application that aims to replace the current course and student management system used by the University of Manitoba. It's goal was to make the course registration process for students more simple, and more streamlined.
- Utilized Test-Driven Development using JUnit Testing and Mockito, though Android Studio.

SpooderSnake-42   July 2023
RBC Battlesnake Tournament

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   Jan. 2022 - May 2022
Human-Computer Interaction Course Project
- 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.

Costco Parking Simulator   Jan. 2022
UManitoba Comp. Sci. Students' Assosiation Game Jam

github.com/Marshmallows7920/CSSAGameJam2022
- Engineered a unique gameplay experience where players navigate the challenge of finding a parking spot in a bustling Costco parking lot, creatively interpreting the "Space" theme by focusing on the scarcity of parking space.

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 External Affairs   June 2023 - May 2024
.devClub, 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   June 2022 – May 2023
Frontier Supply Chain Services, Winnipeg, Man., Canada