

Khoa (Cody) Cao

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EDUCATION

Northeastern University, Seattle, WA January 2023 - June 2024

Khoury College of Computer Sciences

Master of Science in Computer Science

Related Courses: Algorithms, Programming Design Paradigm, DBMS, Cloud Computing, Distributed System.

DePauw University, Greencastle, IN

August 2019 - December 2022

Bachelor of Arts in Computer Science, Dean's Honor List

Major GPA: 3.97, Cumulative GPA: 3.9

Related Courses: Data Structure, Computer System, Object Oriented Software Development, Foundation of Computation, Writing in Computer Science, Database & File Systems, Programing Languages, Computer Graphics, Computational Discrete Mathematics, Foundation of Advanced Mathematics, Mobile Development (Android Studio), Data Mining, Compilers, Operating System.

TECHNICAL SKILLS

Languages: Java, Javascript, C++, C#, Python, SQL.
AWS: Lambda, RDS, VPC, IAM.
Technology Stack: VueJS, NodeJS, Docker, MySQL Database.
Workspace Tools: Visual Studio Code, Visual Studio, Android Studio, Google Workspace, Microsoft Office, IntelliJ.
Algorithm: Solved over 300 problems on Leetcode and Hackerrank; CodePath Intermediate Software Engineering.
Other: Project Management, System Design, Presentation, Teamwork, Leadership, Fast-learning, Bilingual.

WORK EXPERIENCE

PerformancePoint LLC, Memphis, TN (Remote) June 2022 - August 2022

App Developer Intern

- Analyzed company's product requirements; suggested technology stack (Kotlin for mobile application, AWS Lambda and RDS for backend and database).
- Formulated and formatted a document describing backend operations and pseudo codes to achieve functionalities for a team of 5 Developer interns.
- Facilitated daily team meetings, guided other interns through the technology stack learning process.
- Collaborated with other interns in designing the interface for the application leveraging Figma; executed the layout in Android Studio.
- Designed and documented MySQL database schema; tested schema with typical work scenarios.
- Implemented AWS Lambda functions for backend tasks; performed testing through Postman.

FPT Software, Ho Chi Minh, Vietnam

June 2020 - August 2020

Software Engineer Intern

- Created, performed, and reported software test cases (UI function testing) to ensure the bug is totally fixed, and no new bug was created after debugging. Tested more than 20 bugs.
- Developed a WinForms application for file browsing and managing using C#.
- Set up computers with three different OS (Windows 10, Windows 7 32 bit, and Windows 7 64 bit) for testing.

CERTIFICATES

J.P. Morgan Software Engineering Virtual Experience Program on Forage. May 2023

Combined Python, Typescript, and JPMorgan Chase & Co. frameworks and tools to display data visually for traders.

Accenture Nordics Developer Virtual Experience Program on Forage. May 2023

Conducted a software design process with multiple aspects: technical requirements, cloud infrastructure, unit testing, UAT, security, data, and privacy.

PROJECTS

- Android Development - Kotlin: application to describe a life and accomplishment of a computer scientist from under-represented group; developed a demo donate page with card type recognition and number validation.
- Ray Tracing: exports a PPM file containing a scene of balls executing Ray Tracing algorithm; decreased rendering time from 60 minutes to seconds by implementing C++ concurrency and Nvidia's CUDA API.
- Text-based games: Applied Java object-oriented programming pattern into developing a travel game; prompted players to travel between rooms, observe, pick up, and drop off items.