DRAKE PHAM

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Summary

Full-stack developer with expertise in AI integration and scalable application/API development. Strong background in computer science and software engineering, consistently delivering high-quality solutions within agile teams. Achieved a 90% reduction in deployment time using AWS in distributed, fault-tolerant environments, improved Python-based response times by 35%, and lowered database costs by 40%. Additionally, mentored 20 students in data structures and algorithms, preparing them for software engineering internships by enhancing their problem-solving skills.

Education

University Of Kansas

Bachelor of Science in Computer Science - GPA: 3.41/4

Graduated: May 2024

Lawrence, Kansas

- Relevant Coursework: Data Structures and Algorithms (C++), Object-oriented programming (C++), Database System, Communications Networks, Operating Systems, Theory of Computing, Compiler, Computer Architecture.
- Club & Organization: KUMC Toastmasters, New York Toastmasters, Upsilon Pi Epsilon.

Technical Skills & Certifications

Skills: C++, Typescript, Python, DynamoDB, MySql, Node.js, React.js, Express.js, Docker, Bash, Git/GitHub, HTML5/CSS3. Cloud Computing: AWS (CloudFormation, Lambda, S3, API Gateway, Redis, CloudFront, Route 53, DynamoDB, Cognito). Certifications: AWS Certified Solutions Architect - Associate, CodePath - Advanced Data Structure and Algorithms.

Experience

Software Engineering Fellow

July 2024 - September 2024

Headstarter | Python, Rust, Node.js, Next.js, EC2, ECR, Pinecone, Generative AI, Unit Testing

Remote - New York, NY

- Built Al customer ChatBot from 0 to 1 with a team of 4, leveraging React.js, Next.js, OpenAl, Jest (Unit Testing) and AWS.
- Contributed to the Biome (14k stars) open-source project with a team of 4 by converting GraphQL files to Abstract Syntax Trees, detecting errors with GraphAL-ESLint, and writing comprehensive Rust function tests for syntax error detection.

Software Engineer Intern

February 2024 - May 2024

MarkovAI - Start up | Python, Docker, Microservice

Remote - San Francisco, CA

- Independently developed Python-based data migration functions, successfully transferring 8,000 events to Appwrite's database and leveraging its system to achieve optimal request performance, reducing response time by 35% to 226.21 ms.
- Implemented and troubleshooted RESTful APIs that allows users to query events by their location.
- Configured and tested an SMTP mail server using Mailgun, enhancing email deliverability for event suggestions.

Software Engineer Intern

May 2022 - August 2022

Zoi | Typescript, Node.is, React.is, DynamoDB, CloudFormation, Lambda, S3, Unit Testing

Ho Chi Minh, Vietnam

- Implemented 2 searching RESTful APIs (Typescript) across four categories by collaborating with a team of 5 in an Agile Scrum team environment, following TypeScript-specific best practices such as strict typing, and code modularity, along with comprehensive Jest unit testing, which improving loading performance by 20%.
- Applied the design best practices (the Adjacency List Design Pattern) to consolidate three tables into one in DynamoDB, saving 40% cost, enhancing 30% performance, and simplifying queries.
- Utilized AWS CloudFormation to create Infrastructure as Code (IaC) files, integrating S3, CloudFront, OAI, API Gateway, Lambda (Typescript), and DynamoDB for deploying a React app, resulting in a 90% reduction in deployment time.

Leadership

Technical Interview Prep Coach

May 2024 - August 2024

CodePath | Leadership, Communication, Mentorship, Teaching, Feedback

Remote - San Francisco, CA

- Coached and mentored 20 students in data structures and algorithms, covering Linked Lists, Strings, Arrays, Binary Trees, Graphs, and Dynamic Programming for software engineering internships.
- Regularly provided constructive feedback to help students improve in **5 LeetCode problems** during **weekly 1-hour sessions**.

Projects

HelpMate | Javascript, Node.js, Express.js, React.js, MvSal

 All-in-one platform combining academic schedules, travel plans, weather updates, and social events into a single platform for better management of college student life, resulting in over 100 students signing up.

Tetris Game | C++, OOP, Unit Testing, Raylib

GitHub

Developing a Tetris game in C++ using raylib library, applying inheritance, encapsulation, and abstraction.

Rust Operating System | Rust, Cargo, x86_64 Architecture, Assembly, Bootloader, Paging, Interrupt Handling, UEFI/BIOS

Al Customer ChatBot | Javascript, OpenAi API, Unit Testing (Jest)

GitHub

• Crafting a concise **3-sentence** summary that aligns with a job description based on a resume.

GitHub

 Hands-on experience with low-level programming concepts like memory management, interrupt handling, CPU scheduling, and hardware abstraction, enhancing my proficiency in Rust and understanding of OS internals.

Database Performance with Amazon ElastiCache for Redis | Python, ElastiCache, RDS(MySQL), VPC, EC2, Lamda

Certificate

• Reduced a application latency by 20% by using Amazon ElastiCache as a cache with a database.