

# DRAKE PHAM

📍 Secaucus, NJ, USA    📞 785-979-6992    ✉ Mail    📁 Portfolio    🔗 LinkedIn    🎧 ADPList    </> Leetcode    🐙 Github

## Summary

Skilled Software Engineer with expertise in developing scalable AI applications, optimizing cloud-based solutions, and enhancing database performance using Python, Typescript, and AWS. Experienced in leading impactful projects and mentoring peers, with a strong focus on improving system performance and delivering exceptional user experiences.

## Education

### University Of Kansas

Graduated: May 2024

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

Lawrence, Kansas

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

## Technical Skills

**Skills:** C++, JavaScript, Typescript, Rust, Python, DynamoDB, MySql, Node.js, React.js, Express.js, Docker, Terraform, Kubernetes, Bash, Git/GitHub, HTML5/CSS3

**Development Methodology:** Agile/Scrum, RESTful API Development

**Cloud Computing:** AWS (CloudFormation, Lambda, S3, API Gateway, Redis, CloudFront, Route 53, DynamoDB, Cognito)

## Experience

### Software Engineering Fellow

July 2024 – Present

Headstarter | Python, Node.js, Next.js, EC2, ECR, Pinecone

Remote - New York, NY

- Building **3+ AI apps and APIs** from **0 to 1** with a team of 4, leveraging **React.js, Next.js, OpenAI, and AWS**.
- Contributing to the **Biome (13k stars)** open-source project with a team of 4 by converting **GraphQL files** to **Abstract Syntax Trees (AST)**, detecting errors based on GraphAL-ESLint, and **writing comprehensive tests** for each Rust function to ensure 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 RESTful APIs that allows users to query events by their location.
- Configured and tested an **SMTP mail server** using Mailgun, enhancing email deliverability for organizational communication.

### Software Engineer Intern

May 2022 – Aug 2022

Zoi | Typescript, Node.js, React.js, DynamoDB, CloudFormation, Lambda, S3

Ho Chi Minh, Vietnam

- Implemented **two search RESTful APIs (Typescript)** across four categories by collaborating with a teammate and applying the coding best practices (Typescript), 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** to establish a serverless framework for deploying a React app, resulting in a **90% reduction** in deployment time.

### Technical Interview Prep Coach

May 2024 – August 2024

CodePath | Leadership, Communication, Mentorship, Teaching, Feedback

Remote - San Francisco, CA

- Coaching and mentoring **20 students** in key computer science topics like Data Structures, Algorithms, and Graph Theory for software engineer 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, MySql

Github

- Combined 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.

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

Cert

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

## Certification

**AWS Certified Solutions Architect – Associate**

**CodePath Advanced Engineering - Advanced Data Structure and Algorithms**