

# Drake Pham

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## 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, Building Your Leadership Philosophy.

## Experience

### Headstarter

July 2024 – Present

*Software Engineering Fellow*

*Remote - New York, New York*

- Building 3+ AI apps and APIs using React.js, Next.js, OpenAI, AWS, StripeAPI.
- Contributing an accepted Pull Request (PR) to the [Biome](#) (13k Stars) open-source project with a team of 4.

### MarkovAI - Start up

February 2024 – May 2024

*Software Engineer - Intern*

*Remote - San Francisco, California*

- Developed **Python-based data migration functions** independently, transferring 8000 events to the Appwrite's database, leveraging Appwrite's database system for optimal request performance (226.21 ms).
- Implemented a RESTful API with Test-Driven Development (TDD) that allows users to query locations by their location.
- Configured and tested an **SMTP mail server** using Mailgun, enhancing email deliverability for organizational communication.

### Zoi

May 2022 – Aug 2022

*Software Engineer - Intern*

*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.

### CodePath

May 2024 – Present

*Technical Interview Prep Coach*

*Remote*

- Coaching and mentoring 20 students in key computer science topics like Data Structures, Algorithms, and Graph Theory for software development internships.
- Facilitating discussions to increase student success and engagement, helping students build comfort and trust.
- Provided constructive feedback and encouraging words regularly to help students improve in areas they were struggling with during interview prep sessions.

## Technical Skills

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

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

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

## 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.

**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**