

Michael-Andrew Keays

Single Threaded Event Loop Enjoyer

PERSONAL DETAILS

Address Astoria, Queens
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WORK EXPERIENCES

Software Engineer, Operations

March 2023 - Present

Pattern Research

- Developed, implemented and maintaining services written in Rust, Python, and Vue
- Services for Trading analysis, as well as inter-exchange account transfers that range up to \$1M USD per day
- Development and maintenance of development and deployment CI, as well as production infrastructure hosted on EKS
- Working with internal end users to build short term features, and prepare a long term firm vision for our services
- Lead role in AWS cost management, as well as engineer mentorship and time management

Fullstack Software Engineer

February 2021 - March 2023

Unit21

- Designed and implemented features for fraud identification and case management solutions
- Designed, implemented, and maintained a number of microservices, with attention to security, performance at scale, and maintainability
- Co-lead a redesign, and implemented of our government reporting pipeline, shipped with issue detection and performance monitoring
- Triaging and resolving urgent customer issues, particularly regarding data integrity
- Leading cross-team coordination to ensure good customer communication and careful problem resolution

Quality Engineer

August 2019 - February 2022

MicroStrategy

- Designed and executed performance test suites focused on multiple core MSTR server functionalities
- Designed and implemented automated test pipelines for stability, security, and functionality tests
- Developed and maintained end-to-end security automation for TLS functionality for a large range of different operating systems
- Maintained existing testing infrastructure in company-wide CI/CD pipelines

Undergraduate Researcher

June 2018 - April 2019

George Mason University

- Research in Autonomous Vehicle Integration and Design, as well as modern vehicle safety
- Designed and developed Open Dataset Labeling Software
- Research and education in modern data mining techniques for vehicle classification

Afterschool Teacher, Lead

April 2016 - August 2018

Stem ExCEL

- Taught elementary and middle school children skills in computer game design, programming, and electrical engineering

CERTIFICATIONS

Certified Kubernetes Application Developer

January 2022

The Linux Foundation

AWS Certified Cloud Practitioner

October 2022

Amazon Web Services

EDUCATION

Computer Science, B.S., Linguistics Minor

2015-2019

George Mason University