John Paul Minimo

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Education

San Diego State University **August 2021 - May 2025**
Bachelor of Science, Computer Science *San Diego, CA*

- **Relevant Coursework**: Data Structures and Algorithms, Distributed Systems, Operating Systems, Real Time Systems, Systems Programming, UNIX System Administration, Principles and Techniques of Data Science

Technical Skills

Programming Languages: Java, Scala, Python, C++, Typescript, Javascript, Swift, Kotlin
Technologies: Apache Spark, gRPC, AWS (EMR, Glue, S3, Athena, CloudWatch, EC2), Pandas, Unix, Linux

Experience

Amazon **May 2024 - August 2024**
Software Development Engineer Intern (Traffic Engineering - Online Proxy Fleet) *Seattle, WA*

- Built a log query service providing a reduction in on-call engineer response time from 12 minutes to 3 minutes.
- Deployed tool to production with the tool garnering usage, helping solve a high-severity event during Prime Day.
- Utilized Apache Spark and EMR to retrieve, parse, then transform raw log data from S3, into Parquet format.
- Employed AWS Glue to crawl transformed Parquet logs, discovering schema, making it queryable in AWS Athena.

Amazon **June 2023 - August 2023**
Software Development Engineer Intern (Alexa - Bluefront) *Seattle, WA*

- Streamlined integration testing for Alexa services on gRPC, creating an easy to use and improved framework.
- Developed and designed a universal gRPC client interceptor in Java which records incoming and outgoing bidirectional streaming data to be exposed for integration tests, implemented in 3 Alexa Speech services.
- Innovated a custom data structure for capturing bidirectional stream chunks with their respective timestamps.
- Engineered custom assertions leveraging Google Truth in cohesion with new client interceptor and data structure.

Amazon Web Services **August 2022 – November 2022**
Software Development Engineer Intern (AWS DevOps - CodeGuru Reviewer) *Seattle, WA*

- Reduced downtime duration caused by availability zone outages by 90%, by orchestrating the design and deployment of a new health monitoring system, performing error analysis on AWS CloudWatch Logs.
- Developed a critical operations tool in Python to automate the manual weight-away of availability zones.
- Modified log schema and format of AWS CodeGuru Service to be compatible with AWS CloudWatch.
- Leveraged AWS CDK in Typescript for automating deployment of all necessary AWS resources of new service.

NFINIT Datacenters **December 2021 – July 2022**
Network Operations Center Intern *San Diego, CA*

- Integrated an open-source JavaScript speed test server, ensuring connection stability, performance for 50+ clients.
- Participated in the installation of critical network infrastructure, including routers, servers, and switches.
- Executed remote hands-on tasks for co-location customers and administered monthly virtual machine patching through vSphere, reducing security vulnerabilities while providing customer support for all virtual machine clients.
- Shadowed network and DevOps engineers during infrastructure events to build understanding on troubleshooting.

Projects

Typing Test Analysis with OpenCV | *OpenCV, Mediapipe, Python*

- Typing test that uses Google's Mediapipe, and OpenCV to track real-time hand movement during typing tests.
- Provided analytics on how users can improve their typing using data from typing tests and hand tracking.
- Created a module with Mediapipe using user's camera retrieving finger movement information during typing.
- Leveraged parallelism in Python to run a random word-generated typing test along with Mediapipe hand tracking.

UCSD Food Review | *Xcode, Swift, Parse, REST API*

- Engineered an iOS app using Swift and Parse for UCSD students, for sharing reviews on campus dining.
- Led the CodePath iOS app development team, orchestrating project sprint meetings, ensuring timely delivery.
- Designed and implemented a robust front-end using Swift, integrating with a Parse database and REST API.