MOSES LEE

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CAREER STATEMENT

A computer science graduate and certified AWS Cloud Architect with strong communication skills and a passion for building innovative business solutions. Skilled in collaborating with cross-disciplinary teams to design, develop, and maintain websites and apps. Able to effectively communicate technical challenges and solutions. Seeking a position as a software engineer to contribute to creating cutting-edge products and services.

TECHNICAL SKILLS

Languages: Python, Typescript, C++, C#, Go, Swift, Java
Web: React.js, Next.js, CSS, Electron.js
Databases: PostgreSQL, DynamoDB
DevOps: Git, Docker, Kubernetes
Blockchain: Solidity, Hardhat

EDUCATION

B.A. Computer Science & Physics - Minor in Mathematics (GPA: 4.0) Oberlin College   *Sep 2016 - May 2023*

Recipient of the Robert Weinstock Prize: Physics Department's Highest Student Award   *2021*
Member of *Phi Beta Kappa* (Oberlin Chapter), academic honor society for academic excellence   *2023*
Leave of Absence for 2 years for mandatory military service in the Republic of Korea Army.   *2017 - 2019*
Courses: Data Structures, Algorithms, Systems Programming, Machine Learning and Data Mining, Complexity Theory

CERTIFICATIONS

AWS Certified Cloud Practitioner

AWS Certified Solutions Architect - Associate

WORK EXPERIENCES

Solutions Architect Intern | Amazon Web Services   *May 2021 - Feb 2022*

- Conducted hands-on demonstrations of AWS Machine Learning services, including Amazon SageMaker and AWS DeepLens, for over 50 Korean edutech and healthcare companies
- Designed and implemented a video-on-demand HLS streaming architecture using AWS Elemental Media services
- Investigated and developed strategies for upgrading clusters on AWS Elastic Kubernetes Service to achieve zero-downtime migration

Software Developer | Pumpkin Company Inc.,   *Mar 2022 - Aug 2022*

- Automated operations of 4 pet daycare centers by developing an internal service used by 20+ employees for customer management and data collection using React.js and GraphQL
- Implemented a lightweight yet scalable architecture using AWS Autoscaling and Application Load Balancer
- Reduced cloud service costs by 40%, replacing large container clusters

Python Development Intern | Luxrobo Co., Ltd.,   *May 2020 - Aug 2020*

- Created Python package to control modular electronic devices for coding education
- Developed a firmware updater for electronic devices, reducing update time to 50% for 20+ employees
- Managed the package as an open-source project and implemented a continuous deployment pipeline to PyPI using Github Action and Jenkins, recording 150+ monthly downloads

MAJOR PROJECTS

Full-Stack Developer, iOS and OSX Application Development | museLIVE Inc., (Remote)   *Mar 2021- Aug 2022*

- Led a team of 5 to develop an iOS app using SwiftUI for virtual musical concerts with WebRTC voice chat
- Achieved 150+ downloads on Apple Store
- Created OSX application to apply audio plugin effects on microphone input and live-stream audio
- Used C++, Qt, Libav, and JUCE libraries for RTMP server streaming

Technical Officer, Machine Learning Product Development | Auto Sorting Smart Bin   *Oct 2019 - Feb 2020*

- Developed trash bin that sorts garbage automatically using computer vision
- Competed in a pitch competition with 3 teammates as part of the LaunchU entrepreneurship program
- Applied VGG16 model on garbage image datasets to achieve 87% classification accuracy
- Built mechanical system for trash can using Raspberry Pi and 3D printer