

# Alexis Alvarez

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## Summary

Dedicated and ambitious software professional with a background in Computer Science & Psychology working individually as well as in group environments with cloud platforms such as AWS, database technologies like MySQL, programming languages such as Python, and Agile methodologies such as scrum and CI/CD.

## Technical Skills

**Programming Languages:** Python, Java, C++, SQL, Bash Scripting, JavaScript, HTML/CSS, R

**Frameworks:** Flask, Chakra-UI, BootStrap

**Developer Tools:** Git, AWS, Linux (Development, Scripting, Server Management), Docker, Terraform

**Libraries:** React, pandas, NumPy, Matplotlib, pyTorch

**SWE Principles:** Agile Methodology, SCRUM, QA Testing, CI/CD, Code Review

**Core Competencies:** Software Development Lifecycle, Cloud Computing (AWS), Database Design and Schema Creation, Technical Documentation, API Design and Development (RESTful)

**Cloud Services:** AWS (Lambda, S3, IAM, DynamoDB)

## Personal Projects

### Game of Thrones Knights API

Task: Built a secure AWS serverless API with automated deployments and real-time monitoring for improved reliability.

- Designed and implemented a scalable AWS serverless API infrastructure using Lambda, DynamoDB, and Python, reducing manual resource management by 70%.
- Automated deployment workflows with Docker, AWS SAM, and GitHub Actions, decreasing deployment time by 50% and minimizing configuration errors.
- Configured IAM roles and security policies, ensuring least-privilege access control and reducing unauthorized access incidents by 80%.
- Implemented monitoring and alerting with CloudWatch, reducing average issue resolution time by 40% through proactive system alerts.
- Developed comprehensive system documentation and deployment guides, improving onboarding efficiency for new team members and reducing setup time by 60%.

### SwiftSell (Full Stack E-Commerce App)

Task: Designed and deployed a custom e-commerce platform using Python, Flask, MySQL, and AWS as the backend infrastructure.

- Engineered robust backend infrastructure, leveraging MySQL for optimized data management and harnessing AWS services to craft scalable, high-performance hosting solutions, achieving 99.9% uptime and reducing query execution time by 40%.
- Implemented complex SQL queries and optimized database performance to support advanced search functionalities and transactional processes, leading to a 25% improvement in page load speed and enhancing operational efficiency.
- Embraced Agile principles and practices, fostering a culture of flexibility, collaboration, and customer-centricity throughout the development lifecycle of the e-commerce app, which contributed to a 50% reduction in bug resolution time.
- Drove team collaboration through key contributions in strategy meetings, led peer code reviews, and shaped project planning sessions, crafting innovative solutions to technical roadblocks and expediting milestone achievement, reducing feature deployment time by 20%.

### S3 Uploader - CLI Tool for AWS S3 File Management

Task: Developed a command-line interface (CLI) tool to streamline uploading files to S3, reducing manual effort and improving efficiency.

- Designed and implemented a Bash script integrating AWS CLI, automating file uploads and reducing manual upload time by 60%.
- Implemented real-time progress tracking and performance logging, improving visibility into file transfer success rates.
- Enhanced reliability with robust error handling, reducing failed uploads by 80% through automated retries and input validation.
- Improved system-wide accessibility by utilizing symbolic linking, allowing seamless execution from any directory.
- Created comprehensive documentation, including an installation guide, usage examples, and troubleshooting steps, reducing user setup time by 50%.

## Certifications

**CompTIA A+** In Progress

**AWS Certified Solutions Architect - Associate**

**AWS Certified Cloud Practitioner**

## Education

**San Francisco State University**, B.S. in Computer Science

San Francisco, CA

**Merits:** Dean's List

**San Francisco State University**, B.A. in Psychology

San Francisco, CA

**Merits:** Dean's List