

# Axel Mora

Oxnard, CA  
8058249267

axelmora2011@gmail.com  
<https://www.linkedin.com/in/axel-mora-36508316a/>  
<https://axelmoracastanon.github.io/AxelPortfolioWebsite/>

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**Bachelor of Science (B.S.) in Computer Science**  
CSU Channel Islands, Camarillo, CA

**Graduated:** December 2023

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## Skills

- **Languages:** C, C++, SQL, PHP, HTML, Java, JavaScript, Kotlin, XML
- **Operating Systems:** Unix, Linux, MacOS, Windows, Ubuntu, iOS, Android
- **Scripting:** Unix/Linux Shell Scripting
- **Database Management:** SQL, MySQL, Oracle, MariaDB, Amazon Aurora, Amazon RDS
- **Debugging:** GDB, LLDB, GNU Debugger
- **Software Development Methodologies:** Agile, Scrum, Test-Driven Development
- **Version Control:** Git, GitHub, AWS CodeCommit
- **Testing:** Unit-Testing (JUnit, TestNG), Integration-Testing (Postman), AWS CodeBuild, AWS Lambda
- **Cloud Computing:** AWS (Certified Cloud Practitioner)

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## Projects

### Bond Portfolio App - Software Engineer

June 2024 - Present

- Designed and developed an Android app using Java, Kotlin, and XML for managing bond portfolios, allowing users to perform CRUD operations and generate reports like coupon stratifications and portfolio summaries.
- Led the full development cycle, including research, design, development, deployment, and stakeholder collaboration, replacing traditional Excel-based systems with a user-friendly mobile solution that meets security and performance standards.
- Configured AWS backend infrastructure (EC2, RDS, Lambda, CloudWatch, IAM) and implemented a LAMP stack to ensure secure, scalable, reliable, and high-performance interactions between the mobile app and AWS RDS MySQL database.
- Tested PHP API endpoints using Postman to validate seamless, secure data transactions between the Android frontend and AWS-backed infrastructure.

### GymPulse - Software Engineer

August 2023 - December 2023

- Optimized backend data handling on AWS RDS MySQL, resulting in a 30% improvement in data retrieval times, which significantly improved the app's responsiveness and user experience.
- Implemented a CI/CD pipeline using AWS CodeStar, automating testing and deployment processes, which reduced deployment errors by 20% and increased the reliability of the app updates.
- Developed a user-friendly interface using Xcode and Swift, incorporating intuitive UI/UX design principles and Stripe SDK integration for seamless payment processing, leading to a 15% increase in user engagement during beta testing.

### BidMe - Software Engineer

August 2022 - December 2022

- Utilized Unix shell scripting to automate data backup and restore processes for the Amazon RDS MySQL database, ensuring data integrity and minimizing downtime during maintenance windows.
- Created and optimized SQL queries to handle large datasets efficiently, which reduced query execution time by 40%, improving the overall speed of the app.
- Designed a custom API using Java and SpringBoot for seamless MySQL database integration, which enabled real-time data synchronization across different modules of the app, enhancing user experience and system reliability.

### CI-LISP Interpreter - Software Engineer

January 2022 - May 2022

- Developed an interpreter for CI-LISP using C, tackling complex challenges like tokenization, parsing, and evaluation of arithmetic expressions with proper scoping rules, which contributed to the successful implementation of the language.
- Leveraged Unix/Linux environment for development, using tools like Lex and Yacc for parsing, and implemented shell scripts to automate testing processes, which improved the testing efficiency by 25%.
- Introduced advanced features like typecasting and conditionals, enhancing the computational capabilities of CI-LISP, making it a more versatile and powerful tool for users.

# Leadership

August 2023 - December 2023

## CSUCI Artificial Intelligence Club

### Club Treasurer & Co-Founder

- Led AI and cloud computing initiatives, organizing workshops and a successful AWS Cloud-Computing Hackathon in collaboration with Amazon Web Services and Mission Cloud, fostering innovation and problem-solving.
- Managed financial operations to optimize resource allocation, ensuring impactful and cost-effective outcomes.

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## Certifications

- **AWS Certified Cloud Practitioner (CLF-C02)**

Issuing Organization: Amazon Web Services (AWS)

Credential ID: 96f8aa88b4c8446281f41289af780aa1

Credential URL:

[https://www.credly.com/badges/e36006de-4eeb-4117-a60c-10d93339aa21/public\\_url](https://www.credly.com/badges/e36006de-4eeb-4117-a60c-10d93339aa21/public_url)

- **AWS Essential Training for Developers**

Issuing Organization: LinkedIn Learning

Credential ID: AZJdoZn7aAj76LO4Zo7p7aN-a1Fs