CRISTIAN LUNA

Lynwood, CA

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PROFESSIONAL SUMMARY:

- Backend-focused Software Engineer with 3+ years of hands-on experience designing, developing, and maintaining scalable backend systems, cloud integrations, and data-driven workflows across high-traffic environments including Amazon Music.

- Experienced in building Java-based APIs, event-driven services, data pipelines, and distributed backend components that support real-time processing, automation, and analytics for large user bases.

- Strong command over Java, REST APIs, AWS services, SQL/NoSQL databases, Linux environments, ETL processes, and end-to-end data flow management, ensuring reliable system performance and smooth deployment cycles.

- Proven ability to troubleshoot complex backend issues through structured debugging, log analysis, request/response tracing, and iterative refinement of system behavior.

- Skilled in writing technical design documents, collaborating with cross-functional teams, participating in code reviews, and delivering backend features aligned with engineering standards, business logic, and data-governance requirements.

- Holds a Bachelor of Science in Computer Science from Brown University with academic experience in machine learning, systems programming, data processing, and building research-grade prototypes involving real-time vision and sensor-based algorithms.

TECHNICAL SKILLS:

- **Programming Languages:** Java, Python, TypeScript, JavaScript, SQL, HTML/CSS
- **Backend & Java Ecosystem**: Java 8/17, OOP, JDBC, REST APIs, JSON Processing, Basic Spring Concepts, JUnit Basics, API Debugging, Request/Response Lifecycle
- **Cloud & Backend Technologies:** AWS (Lambda, S3, DynamoDB, SQS, Cloudwatch), Docker, Linux Administration, CI/CD Basics, GitHub/GitLab
- **Data Engineering & Machine Learning:** ETL Pipelines, Data Processing, TensorFlow, Keras, PyTorch, OpenCV, NumPy, Matplotlib, Hadoop (intro)
- **Databases:** SQL, MySQL, PostgreSQL
- **Developer Tools & Platforms:** Git, GitHub, GitLab, VS Code, IntelliJ IDEA, JIRA, CI/CD Basics, Debugging & Logging Tools
- **Methodologies:** Agile Scrum, SDLC, Design Documentation, Peer Code Reviews, Test-Driven Fundamentals

EDUCATION:

Bachelor of Science in Computer Science | Brown University — Providence, RI (May 2020)
Relevant Coursework: Artificial Intelligence, Machine Learning, Discrete Structures & Probability, Software Engineering, Databases, Multivariable Calculus

PROFESSIONAL EXPERIENCE:

Amazon Music   **Culver City, CA**
Software Development Engineer   **04/22 - Present**

- Designed and maintained scalable Java- and TypeScript-based data pipelines processing 2 million+ daily events, improving targeting accuracy and analytics readiness.
- Built backend automations using Java, AWS Lambda, S3, and internal services to support ingestion, validation, and transformation of high-volume datasets.

- Developed event-driven modules using Java, REST APIs, and AWS integrations to support real-time processing across marketing and analytics workflows.
- Authored technical design documents with system architecture diagrams, data flows, implementation plans, and dependency mappings for cross-team alignment.
- Diagnosed backend service issues through log analysis, API tracing, payload validation, and implemented corrective fixes ensuring long-term reliability.
- Collaborated with data science and marketing teams to align backend logic with campaign objectives and privacy-compliance requirements.
- Migrated legacy processing components to AWS-native services, improving latency, fault tolerance, and maintainability.
- Conducted detailed code reviews emphasizing clean structure, reusability, test coverage, and backend design consistency.
- Built dashboards and alert workflows to enhance observability and reduce incident-resolution time.
Supported backend optimization, experimentation frameworks, and model-driven integration workflows across teams.

Environment: Java, TypeScript, Python, AWS (Lambda, S3, DynamoDB, SQS, Athena, Glue), REST APIs, Docker, Linux, Bash, Git/GitHub, SQL, Postman, JSON, IntelliJ IDEA, VS Code, CloudWatch, CI/CD, Logging & Monitoring Tools, JDBC, JUnit

Brown University

Sunlab Consultant & Engineering Programmer   **09/2018 – 12/2019**
- Maintained Debian Linux systems for 1,200+ daily users, assisted with environment configuration, terminal commands, and troubleshooting academic development workflows.
- Developed a real-time visual prosthesis prototype integrating text recognition, obstacle detection, and 3D audio feedback to support navigation research.
- Built and refined algorithms for hand-detection and depth-frame tracking, significantly boosting precision in object-grasping experiments.
- Supported faculty by contributing software updates, documentation, and iterative testing of vision-based research tools.

Environment: Python, Debian Linux, OpenCV, TensorFlow, Keras, NumPy, Bash, Git, Machine Learning, Real-Time Processing

Logistimo

Data Visualization Engineer Intern   **02/2019 – 05/2019**
- Enhanced ETL workflows to enable interactive visualization of transportation order datasets, improving analytical decision-making across operational metrics.
- Designed charting components (box, bar, scatter) allowing analysts to compare KPI patterns and uncover data insights more efficiently.

Environment: Python, SQL, Data Visualization Libraries, ETL Tools, Linux, JIRA

BOOTCAMP AND TRAINING PROGRAM:

Advanced Java + Spring Framework – Bootcamp Program | CodingNomads | Jan 2021 – Dec 2021
- Completed a structured bootcamp focused on Core Java, OOP fundamentals, REST API development, Spring Boot, and database-driven backend workflows using MySQL and PostgreSQL.
- Built hands-on projects applying MVC patterns, API routing, authentication modules, JSON handling, and reusable service-layer components across multiple backend assignments.
- Developed full-stack features using Java, Spring Boot, React/JavaScript, and SQL queries, reinforcing practical knowledge of CRUD operations, validations, and database schema design.
- Participated in Agile-based team sprints, version control workflows with Git/GitHub, debugging exercises, and code-review tasks simulating real-world development environments.