Esteban David Espinoza

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Experience

Software Developer   **Jan 2021–Present**
IBM
- Delivered scalable AWS microservices and integrations for IBM OpenPages SaaS offering, enhancing data processing efficiency and improving security and compliance reporting accuracy by 20%
- Created full-stack application tracking 80+ IBM OpenPages on-prem deployments using React + MERN stack, reducing build reporting time by 75%, translating to a tripled increase in developer productivity
- Introduced suite of over a hundred Cypress tests for IBM watsonx.governance SaaS offering, increasing SonarQube code coverage by 32%
- Served as Scrum Master for three major releases, coordinating a cross-functional team of 20+ back-end developers, AI developers, and offering managers to deliver key OpenPages features and enhancements
- Mentored dozens of developers in self-service processes related to development environment setup, CI/CD, dependency management, security vulnerabilities, and third-party upgrades & integrations

Software Technical Lead   **Jul 2021–May 2022**
Generate Product Development (Academic/Part-Time)
- Delivered functional full-stack prototypes for five different Series A and B startups based in Boston
- Hosted knowledge sharing-sessions for MongoDB, Express, React, Node (MERN stack), and GraphQL
- Served as technical lead for two teams of 6-8 students each, overseeing feature development, system design & architecture, technical writing, and code review
- Conducted over fifty behavioral and technical interviews for aspiring engineering and design candidates

IT Project Management Co-Op   **Jan 2020–Jul 2020**
Harvard University
- Designed and delivered functional wireframe design for A/V inventory application and relational database
- Managed OS upgrades and cross-platform software migrations for 150+ staff virtual environments
- Completed technical support tasks for administrators and researchers, as assigned by Senior IT Project Manager

Education

Northeastern University – Boston, MA   **Sept 2018–May 2022**
Khoury College of Computer Sciences
Bachelor of Science in Computer Science + Music Composition and Technology
Awards & Honors
- Northeastern National Hispanic Scholar

Coursework
Foundations of Software Engineering, Calculus I, II, and III, Object-Oriented Programming, Database Design, Algorithms & Data, Human-Computer Interaction, Artificial Intelligence

Projects

Metaversal
- Implemented a business intelligence application for Meta Quest to explore the future of immersive analytics
- Developed a containerized MERN back-end/API, integrating with Unity front-end and IBM Cloud Object Storage
- Received the IBM Jumpstart Developer Judges' Choice Award for 2022 for best project execution

Amadeus
- Created prototype for Amadeus, a React Native application for digital music composition aided by AI
- Trained Tensorflow model for Optical Music Recognition, recognizing 32 musical symbols with 86% accuracy
- Enabled pipeline for data collection and image processing, using API Gateway, AWS Lambda, and Amazon S3

Skills

Languages: TypeScript, JavaScript, Python, Go, Java
Frameworks/Tools: React, React Native, Node.js, Express.js, GraphQL, Django, Flask, Tensorflow, OpenSearch, Amazon API Gateway, Amazon RDS, AWS Lambda
Testing/Automation: Cypress, Selenium, Pytest, Jest, JUnit
Databases: MongoDB, DynamoDB, SQL (Microsoft SQL Server, IBM Db2, Oracle Database, PostgreSQL)
Infrastructure/DevOps: AWS CloudFormation, Amazon S3, Travis CI, Docker, Ansible, Kubernetes, Webpack
Other: Visual Studio Code, IntelliJ IDEA, Figma, Postman, GitHub Projects, Jira, Red Hat OpenShift