

Esteban David Espinoza

estebandavid.es | linkedin.com/in/xyzesteban | github.com/xyzesteban
espinoza.e@northeastern.edu | (956) 777-8477

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

Activities

- Secretary for Northeastern Latin American Student Organization

Coursework

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

Experience

Software Developer, Full-Stack

Jan 2021–Present

IBM watsonx

- Led development for application tracking 40+ on-prem and SaaS deployments, boosting productivity by 52%
- Launched suite of 140+ Cypress tests for watsonx.governance SaaS offering, increasing code coverage by 32%
- Developed award-winning VR-powered business intelligence prototype using Unity Engine + MERN stack
- Delivered functioning prototype for Elasticsearch service integration and deployment to on-prem and SaaS
- Mentored dozens of developers in multiple self-service processes related to UI deployment and test automation
- Championed agile software development practices as Scrum Master for AI + offering management team

Software Technical Lead

Jul 2021–May 2022

Generate Product Development (Academic/Part-Time)

- Led two software teams of 6-8 engineers in developing greenfield applications for Boston-based startups
- Worked with project leads, stakeholders, and developers to identify and complete project deliverables
- Conducted over a hundred behavioral and technical interviews for aspiring engineering and design candidates
- Facilitated meetings as Scrum Master and triaged issues according to developers' strengths and personal goals
- Hosted knowledge sharing sessions for tools including React, Node.js, Express, MongoDB (MERN stack)

Project Manager 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 remote work setups, as assigned by Senior IT Project Manager

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: JavaScript, TypeScript, Python, Java

Frameworks/Tools: React, React Native, Bootstrap, Material-UI, Node, GraphQL, Express.js, Django, Jupyter Notebook, Tensorflow, Amazon API Gateway, Amazon RDS, AWS Lambda, Elasticsearch, OpenSearch

Testing/Automation: Cypress, Selenium, Jest

Databases: MongoDB, DynamoDB, SQL (PostgreSQL, Microsoft SQL Server, IBM Db2, Oracle Database)

Infrastructure/DevOps: AWS CloudFormation, Amazon S3, Travis CI, Docker, Ansible, Gradle, Webpack, Babel

Other: Visual Studio Code, IntelliJ IDEA, Figma, Adobe Creative Cloud