

# Esteban David Espinoza

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## 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*

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

## Experience

**Full-Stack Software Engineer**

**Jan 2021–Present**

IBM OpenPages

- Maintained and developed pipeline for 40+ on-prem and Docker deployments as Lead DevOps Engineer
- Launched suite of 140+ Cypress tests for OpenPages SaaS offering, increasing code coverage by 11%
- Developed award-winning VR-powered business intelligence prototype using Unity + the MERN stack
- Championed agile software development practices as Scrum Master for Tech Foundation (back-end & AI) team
- Mentored dozens of developers in multiple DevOps areas including CI/CD, Docker, Ansible, and test automation

**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 two different clients
- Worked with project leads, stakeholders, and developers to identify and complete project deliverables
- Conducted 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 such as React, Node.js, Express, MongoDB, and GraphQL
- Enabled all DevOps tasks (CI/CD pipelines, documentation, version control) according to project requirements

**IT Project Management Co-op**

**Jan 2020–Jul 2020**

Harvard T.H. Chan School of Public Health

- 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 API + server with support for 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 computer vision-aided mobile application for digital music composition
- Trained Tensorflow model for Optical Music Recognition, recognizing 32 musical symbols with 86% accuracy
- Implemented React Native front-end allowing user input of musical notes via a stylus
- Enabled pipeline for data collection and image pre-processing, using API Gateway, AWS Lambda, and S3

## Skills

**Languages:** JavaScript, TypeScript, Python, Java

**Development:** React, React Native, GraphQL, Express.js, Django, Jupyter Notebook, Tensorflow, OpenCV

**Testing/Automation:** Cypress, Selenium, Jest, JUnit, Postman

**Databases:** MongoDB, DynamoDB, Oracle, Db2, MySQL, Microsoft SQL Server

**Infrastructure/DevOps:** Travis CI, CircleCI, Jenkins, Docker, Ansible, Kubernetes, Red Hat OpenShift

**Other:** Notion, Visual Studio Code, IntelliJ IDEA, GitKraken, Figma, Adobe Photoshop, Ableton Live, Pro Tools