

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 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 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