Joshua C. Qin

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Work Experience

Software Engineer Intern **Microsoft** **May 2022-Present**
- Worked on Azure Application Insights for Live Metrics, which provides live telemetry for Azure applications.
  - Designed a solution to gracefully handle large volumes of telemetry around distributed systems constraints.
  - Wrote concurrent code for API request handlers designed to process over a million requests every second.
  - Used **C#/.NET**, **Visual Studio**, and **Azure DevOps** to write, test, and deploy the solution onto **Microsoft Azure**.
  - Meticulously documented project architecture and code-writing practices to improve the onboarding process.

Software Engineer Intern **Basis Technologies** **Jul 2021-Dec 2021**
- Worked on multilingual natural language processing software for names matching between languages and scripts.
  - Developed in **Java** to add functionality to the Rosette for Names product, a commercial SDK.
  - Improved name matching scores generated via Hidden Markov Models and additional layers of adjustments.
  - Built, tested, and released new versions of Basis products using **Jenkins** and internal build/testing tools.

Full-Stack Developer **CORBAL Distribution** **Jan 2018- Jul 2021**
- Led a small team of three developers to create an analytics, accounting, and submissions dashboard used to manage royalty payments of 30000 USD per month and music catalogs with over 300 million cumulative streams.
  - Used **C#** with **ASP.NET** to build the backend for the dashboard, including authentication and royalty accounting.
  - Designed and implemented from scratch a **SQL Server** database to store user, product, and payment data.

Technologies & Skills

Python, Azure, C#, Java, SQL, Full-Stack Development, React, JavaScript, Typescript, ASP.NET Core, Bootstrap, C/C++

Projects

STEM Network – *1st place prizewinner at 2021 Microsoft US Azure IoT Hack for Sustainability*
- Led a team of four to design and prototype a IoT moisture sensor network to improve urban forestry outcomes.
- Wrote web application dashboard in **Bootstrap** and **ASP.NET Core** attached to an **Azure IoT Hub** backend.
- Received technical approval from two certified arborists from the Office of the City Arborist at the City of San José.
- Working with ecology & soil physics researchers to investigate predictive qualities of volumetric soil moisture data.

AI Scoop – *2nd place prizewinner at HackMIT 2021 Azure Challenge*
- Project that parses any article on the internet, simplifies the text with NLP, and formats it as a children's magazine.
- Developed in **Python** with newspaper, summarizer, Merriam-Webster API, and custom text cleanup algorithms.
- Deployed serverless API endpoint to **Azure Functions**, wrote frontend in **HTML/CSS** and **JavaScript**.

Education

Northeastern University **Boston, MA** **2019-2023**
Junior, Khoury College of Computer Sciences – 3.77/4.00 GPA
Bachelor of Science in Computer Science & Business, Minor in Electrical Engineering

Classes: Software Development, Networks and Distributed Systems, Artificial Intelligence, Computer Systems, Graphics