

Tyler Scott Jarboe

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Work Experience

Junior Engineer - Java/Python

April 2024 - Feb 2026

GlobalLogic via Bravens Inc.

- Developed and optimized Python scripts to enhance Large Language Model (LLM) API coding capabilities, achieving 97% quality assurance metrics, helping to improve model efficiency by 5% and factual accuracy by over 20%.
- Mentored new hires, enhancing their understanding of the LLM evaluation processes and coding optimization strategies.
- Assessed model-generated Java, Kotlin, JavaScript, and TypeScript code for logical accuracy, performance efficiency, and compliance with industry based coding standards.

Freelance Developer

May 2023 - Jan 2024

JJ Insurance | TokMedia | Mixed Network Collective

- Developed Java 21 based Spring Boot REST APIs powering backend services, enhancing application functionality.
- Built responsive Angular and React web applications using JavaScript/TypeScript with Tailwind to improve client workflows and usability.
- Designed and implemented relational database schemas in PostgreSQL and MySQL, writing SQL queries to manage complex data relationships.
- Developed a Microsoft Forms desktop application using C# and .NET Framework 4.0 to accelerate policy creation, reducing processing time from one week to under an hour.
- Designed a local JSON-based storage system to integrate with the client's existing shared drive, enabling seamless data access and collaboration without requiring an external database.
- Automated accurate and consistent policy document generation using OpenXML package.

Senior Design Project | Lead Developer

Aug 2022 - May 2023

MARVL Learning and USF

- Led, developed, and evaluated Natural Language Processing (NLP) models using TensorFlow in Python, exploring the feasibility of transformers like GPT in assisting English for Speakers of Other Languages (ESOL) education.
- Engineered a RESTful API with C# and .NET 6.0 to integrate with AWS Kinesis for real-time image recognition and sentiment analysis to assess lesson effectiveness.
- Used Puppeteer (via Python integration) to automate web interactions for large-scale data collection, then cleaned and structured the scraped data for analysis using Numpy and Pandas.

Research Position | Lead Developer

May 2021 - Aug 2021

Florida Polytechnic University

- Developed an iOS application using Swift and Xcode for rhinoplasty surgery consultations as part of a research initiative.
- Engineered a 3D modeling prototype utilizing the Bellus3D framework to visualize surgical outcomes based on patient scans.
- Implemented functionality to upload and process 3D-scanned facial images, aiding in data collection for future research.

Education

Bachelor of Computer Science

Florida Polytechnic University - 4700 Research Way, Lakeland, FL 33805

Skills

Java, C#.Net Framework, Unity, JavaScript, Typescript, Angular, React, C, C++, ExpressJS, NodeJS, SpringBoot, Git, SQL, MySQL, Swift, Docker, NoSQL, React, Python, PostgreSQL
HTML, HTML5, CSS, Swift, Linux, Bash, REST, XML, YAML
Windows, Robotics, Android, iOS, Word, Excel, PowerPoint, Photoshop