Pablo Vargas

LinkedIn.com/in/pvar | GitHub.com/pvargas | pvargas.tech

EXPERIENCE

IBM – Software Engineer   Jan 2024 – Present

- Collect and visualize metrics to give users immediate feedback on the status of their connection
- Implement new features, including adding endpoints to a RESTful API to help preserve data integrity
- Expand the capabilities of a geospatial map application, such as adding the ability to transform geometries
- Use Java to create CLI tools to enable user data migration and prevent data corruption
- Create React.js hooks and components to streamline the codebase and improve developer productivity

Connexta / Octo (acquired by IBM) – Software Engineer   Sep 2018 – Dec 2023

- Improved the performance of a Django application by making its jobs asynchronous, reducing user wait times by 40%
- Created an internal dashboard tool, using Python and React.js, that reduced the time needed to inspect the status of a production system by 66%
- Developed a CI/CD pipeline tool to automatically update the semantic version of Helm charts based on developers' changes, which helped enforce versioning guidelines across repositories
- Designed and led a team of 2 developers in the implementation of a serverless service and accompanying test harness
- Architected critical feature that allowed the onboarding of new types of users
- Deployed 7 microservices using AWS services, including Lambda, SNS, and SQS
- Developed RESTful web services using TypeScript and NestJS using Agile processes

PROJECTS

AI Clinical Data Summarizer
- Created an application that allows users to view a summarized version of their clinical notes data
- Summarized text data using OpenAI API and the GPT-3.5 large language model
- Designed the user interface and implemented it using Svelte

Android Theremin
- Created an Android application that emulates the functionality of a theremin
- Implement live hand motion tracking using Google MediaPipe
- Developed the sound engine using Android's AAudio C/C++ API

SKILLS

Languages	JavaScript, TypeScript, Python, Java, C#
Technologies	Amazon Web Services (EC2, S3, Lambda, SQS, SNS, CloudFormation, CloudWatch), Git, Reach, Svelte, Numpy, Pandas, Scikit-learn, Matplotlib, OpenCV, HTML, CSS, Node.js, SQL, GitHub Actions, GitLab CI, Jenkins, Docker, Kubernetes

EDUCATION

Georgia Institute of Technology – M.S. in Computer Science   Dec 2023
Salem State University – B.S. in Computer Science   Aug 2018

CERTIFICATIONS

AWS Certified Cloud Practitioner   Renewed Oct 2024 – Expires Oct 2027