John Glen Siy

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Skills

- Languages: Python, R, Javascript (HTML/CSS), Typescript, C++, C#, Ruby, Java, GoLang, SQL
- Tools/Platforms: React Native, Tailwind CSS, MongoDB, MySQL, Firebase, Git (Bitbucket), Azure, AWS
- ML Frameworks: PyTorch, Tensorflow, Keras, Scikit-learn, Caffe, Pandas, HuggingFace

Experience

Full Stack Developer and Project Manager, Codeology @ UC Berkeley **February 2023 - Present**

- Led a team of 5 junior developers in building a **full stack** language translation model using **React, JavaScript, HuggingFace**
- Developed an ML pipeline for classifying audio clips to 20+ music genres using **TensorFlow** and **Keras**, with over 94% test set accuracy
- Sourced clients to identify partners for external consulting projects, generating over $40,000 in profits for the club

Full Stack Developer, CozmicGo Contract **June 2024 – August 2024**

- Developed a cross-platform event planning mobile app in **Swift**, **React Native, and Typescript**
- Devised a geospatial pagination technique with **REST APIs** and **Firebase** for optimizing user feeds, increasing scalability tenfold and reducing latency for event filters
- Facilitated **A/B testing** for different UIs, increasing average **user session length by 85%** and decreasing monthly **churn rate by 40%**

Software Developer and Client Project Manager, IBM Contract **February 2024 – June 2024**

- Developed technical explainers and tutorials on machine learning topics, such as **data upsampling** and **k-means clustering**
- Generated **Python** scripts to optimize **SEO** term selection, boosting articles to the **top position** of relevant search queries
- Managed a team of 5 junior developers by organizing weekly sprints using **Agile** methodologies

Projects

Spam Email Classifier | Github

- Engineered a logistic regression classifier for spam emails using **Pandas** and **Matplotlib**, achieving 99.2% accuracy on unlabeled test data, ranking 4th among 1000+ students

Secure File Sharing System | Github

- Designed a basic cryptographic file system for securely storing and sharing text files in the presence of attackers using GoLang
- Implemented functionality for secure user log-in, editing file contents, and sharing and revoking file access

Gitlet

- Programmed a version-control system in Java that mimics 10+ Git functionalities
- Employed file serialization and data structures for efficiently organizing file contents

Avolingo

- Developed a front-end language translation app with HuggingFace supporting over 40+ languages
- Authored comprehensive NLP machine learning curriculum using Jupyter notebooks

Education

University of California, Berkeley **Berkeley, CA**

B.S. Electrical Engineering and Computer Science Expected Graduation: May 2025

Relevant Coursework:

Database Systems, Computer Security, Internet, Structure of Computer Programs, Data Structures, Computer Architecture, Advanced Algorithms, Artificial Intelligence, Discrete Math, Probability, Machine Learning, Principles of Data Science, Optimization Models, Reinforcement Learning, Deep Learning