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Johnny (Nghia) Nguyen

nghia-t-nguyen.github.io github.com/nghia-t-nguyen twilio.com/blog/author/ngnguyen

TECHNICAL SKILLS

Programming Languages: Python, Dart, Java, HTML, CSS, JavaScript, C++, C#, Kotlin, MATLAB, R

Tools and Frameworks: Git, VSCode, Figma, Flutter, JQuery, Android Mobile Development, Android Studio,

REST API, Unity, Linux, Slack, Discord, Webflow, LaTeX

Machine Learning / Data: Firebase, Tensorflow, PyTorch, pandas, NumPy, Matplotlib, scikit-learn, Pymatgen,

Tableau, Airtable, Microsoft Excel

PROFESSIONAL EXPERIENCE

Software Engineer, Technical Content (Intern to Freelancer) Twilio

May 2022 - Present San Francisco, CA

Developing technical content for Twilio's Developer Voices blog to educate aspiring Twilio developers

- Improving developer relations by encouraging developers to build through Twilio's blog and products by creating educational technical content
- Built 7 applications using Twilio APIs and products, and wrote 7 corresponding technical tutorials
- Boosted Twilio Blog's web traffic with thousands of page views by writing technical articles
- Collaborated with dozens of developers to publish 15 new pieces by reviewing drafts and software applications

Academic Tutor

Aug 2020 - May 2022

Columbia, SC

University of South Carolina

Tutored at the Dodie Anderson Academic Enrichment Center

- Helped over a dozen students reach their full academic potential by tutoring in Computer Science, Math, and Physics
- Addressed the specific needs of students by adapting individualized approaches and supplementary materials to communicate complex subjects

Machine Learning Assistant Researcher University of South Carolina

May 2021 - Dec 2021 Columbia, SC

Researched at UofSC's Machine Learning and Evolution Laboratory

- Provided solutions in materials discovery by predicting molecular vibrational frequencies using a graph neural network
- Trained, tested, and evaluated over 40,000 crystal samples using Python packages, such as NumPy, pandas, scikit-learn, PyTorch, and Pymatgen
- Contributed to a first-author American Chemical Society research publication by improving machine learning models and creating graphic figures after using Python to manipulate and analyze data results

PROJECTS

Pohnpeian Language App

- Designed and prototyped an app using Figma
- Building an app using Flutter and Firebase, successfully creating a working proof of concept that allows users to learn Pohnpeian through lesson plans, quizzes, and external resources
- Creating testing suites for beta release using Flutter's documentation on unit, widget, and integration testing

Predicting Lattice Vibrational Frequencies Using Deep Graph Neural Networks

 Improved and adapted a graph neural network to predict vibrational frequencies in crystal lattice systems, and contributed to a corresponding first-author publication in the American Chemical Society's Omega journal

Git Time Travel Game

- Designed and programmed a game using Unity, featuring an in-game terminal that allows users to use Git commands to save and traverse timelines
- Wrote a corresponding tutorial, complete with diagrams and explanations, so users can follow along and learn Git commands, such as commit, branch, and checkout

EDUCATION

Bachelor of Science in Computer Science University of South Carolina, Honors College Columbia, SC

Major: Computer Science - Minor: Mathematics - Summa Cum Laude