

NATHANIEL LOUIS TISUELA

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SKILLS

OO Languages Python Java C++ C
Web Development GraphQL Flask FastAPI Tomcat Express.js
Scripting Powershell Javascript



EMPLOYMENT

Computer Network Technician, [Advanced Power and Energy Program](#)

Maintained, troubleshooted, and deployed over 100 machines. 2018-10 — Present

- Inspected and repaired XML documents to recover research, saving 3 weeks of work for students
- Developed powershell scripts to create technical reports and deploy for over 100 machines. This automation makes weekly tasks 3 times faster.
- Authored easy-to-follow guides to teach new softwares to over 100 users.
- Debugged Python software to resume monitoring of utilities in dozens of on-campus facilities.

Python SQL Powershell XML

IT Assistant,

IT support to offer, deploy, and troubleshoot software/systems for various businesses. 2017-10 — 2018-10

- Conducted On-site and remote support for over 6 companies.
- Listened to problems and recommended software solutions for over 3 companies. Provided training afterwards.
- Authored written and verbal communication to troubleshoot issues with software and hardware for dozens of users.

Dameware Microsoft Office Computer Hardware Assembly



PROJECTS

Creator, [CourseCake](#)

Created a Web/Python API for developing course discovery apps. 2020-07 — Present

- Recruited and directed collaboration with other student developers from 3 other universities.
- Launched CourseCake to become the most active cross-campus API supporting GraphQL and REST endpoints, cataloguing thousands of classes.
- Publicized CourseCake through easy-to-understand and interactive documentation, making CourseCake a teachable tool.
- Developed sensible schemas to model course discovery based on existing course discovery tools.

Python FastAPI GraphQL REST SQLAlchemy

Developer, [PeterPortal API](#)

Collaborating with a team of 6 developers to make this tool available for students at UCI. 2020-09 — Present

- Identified SQL vulnerabilities.
- Proposed and implemented GraphQL, which simplifies 5 REST endpoints into 1 endpoint, making complex queries up to 500% more efficient.

Express.js GraphQL Node.js SQL



EDUCATION

UC Irvine

B.S. in Computer Science 2017-12 — 2021-06

Data Structure Implementation and Analysis Information Retrieval Principles in System Design Design and Analysis of Algorithms Computer Networks Databases and Web Applications



AFFILIATION

President, [Acts College Ministry](#)

Delegated event planning and led weekly meetings as first president of Acts @ UCI. 2019-09 — Present

- With the help of the board, Acts saw membership increase by 200%.
- Conducted migration to remote meetings and activities due to COVID-19 (maintained majority member retention) through close teamwork with the board and sister clubs.
- Designed a new website and established presence on UCI's online system, seeing over 70 student engagements in 2 days during a virtual fair.
- Coordinated large group events with a team of 6 members, averaging 2 large group events a month both before and after COVID-19