Timothy Vu

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🎓 Education

Cornell University School of Engineering   2020 - 2024
BS Computer Science   *Ithaca, NY*

Thomas Jefferson High School for Science and Technology   2016-2020
Jefferson Advanced Studies Diploma   *Alexandria, VA*

📊 Experience

Modus Create Inc.   May 2020 – Aug 2020
Software Development Intern   *Reston, VA*

> Applied knowledge of cloud computing and web development to work as a primary contributor on several Modus Labs RD projects

> Published technical blog articles and code tutorials on company blog page and Medium

> Gained experience with AWS development (Lambda, DynamoDB, API Gateway), JavaScript, Vue, React, UI/UX design, Agile software lifecycles and unit testing

Naval Research Laboratory   June. 2020 – Aug. 2020
Research Intern   *Washington, DC (remote)*

> Developed programs to optimize Fourier processing and improve existing signal processing routines for a novel Spatial Heterodyne Spectrometer (SHS) standoff detection system

> Expanded knowledge of classification algorithms and machine learning technologies such as Tensorflow

> Gained experience developing with Python and Java

> Continued research from Summer 2019 as part of the highly selective Science and Engineering Apprenticeship Program (SEAP)

Naval Research Laboratory   Jun. 2019 – Aug. 2019
Research Intern   *Washington, DC*

> Conducted extensive research with Raman and IR micro-spectroscopy

> Developed a library database of Raman IR spectra of materials of forensic interest (chemicals relating to the synthesis and composition of drugs and explosives)

> Analyzed spectral data and optimized signal processing using Origin and Excel

> Explored advantages and disadvantages in using both techniques for detection and identification

🧪 Projects

AWS Acme Instant Tunnel   https://github.com/moduslabs/aws-acme-instant-tunnel

> AWS DevOps Tool for temporarily granting SSH permissions to AWS resource using AWS Lambda, DynamoDB, and API Gateway via the Serverless Framework.

Twutor   https://twutor.herokuapp.com

> Full-stack student networking web app designed to connect struggling students with study groups and qualified peer tutors. Built using MERN stack (MongoDB, Express, React, Node.js)

Vueport Shop   https://vueport-shop.netlify.app

> MVP E-commerce app built using Ionic framework, Vue 3 Beta, and Typescript

⚙ Skills

Languages Java, Python, JavaScript, SQL, MatLab, HTML, CSS

Technologies and Frameworks AWS, React, Vue, MongoDB, Node.js, ExpressJS, Keras, Tensorflow

IT Certifications AWS Certified Cloud Practitioner, AWS Certified Developer Associate