JARED NGUYEN

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EDUCATION

University of Virginia, School of Engineering and Applied Science — Charlottesville, VA
B.S. Computer Science — Class 2023
GPA: 3.820 / 4.0
Coursework: Program and Data Representation, Theory of Computation, Human-Centered Product Design,
Current Coursework: Advanced Software Development Techniques, Algorithms, Software Testing

EXPERIENCE

Forge Source: Program Coordinator — Aug 2020 – Nov 2020

- Taught a 12-week, 30 student class on building web applications with React
- Led hands-on labs and coached students through 3 course projects
- Collaborated with course leadership to plan curriculum and provide mentorship to students

Virginia-North Carolina Alliance Summer Research Program — Jun 2020 - Aug 2020

- Researched methods to improve the reproducibility of computational studies by analyzing computational environments and containerization technologies
- Created containerized development environments using Docker, Binder, and Singularity
- Presented at the Leadership Alliance National Symposium
- Attended professional development workshops for research ethics, collaboration, and presentation

PROJECTS

Pyctochat – *React, Express, Node, MongoDB, TailwindCSS*

- Built a real-time messaging web application that allows users to chat with drawn or typed messages
- Implemented a system to generate or personalize URL links to each chatroom

Quick-List – *React, Firebase, Node, HTML/CSS*

- Created a task management web application that reduces planning time by minimizing clicking and unnecessary details
- Utilized React for frontend and Firebase Firestore for storage and authentication

Stuck in Space

- Designed a spaceship-themed academic activity with a $200 budget for elementary school students in a 5-person design team
- Consulted with teachers and students as stakeholders to identify pain points in teaching and learning
- Play-tested the design constructed from woodworking, 3D-printing, and Arduinos
- Received the highest ratings for satisfaction and enjoyment from students

SKILLS

Languages: JavaScript, Typescript, Java, Python, C++, R, HTML, CSS
Technologies: React, Node, Express, MongoDB, Firebase, Git/GitHub, Bash, Docker, Netlify, Heroku, Conda

EXTRACURRICULAR

Google Developer Student Club — Sep 2020 – Present

- Learned various Google technologies through hands-on workshops and presentations

Low/Self-Powered Systems for Internet of Things Research — Aug 2019 - May 2020

- Developed a user-interface for a model of systems under various energy loads using PySimpleGui