Ky Nguyen

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Technical Skills:
Programming: Java, Python, C, C++, C#, FPGA designs, Javascript, Git, Assembly, ReactJS/Next.js, MatLab, Linux, VS code, bash python scripting, command line interface, Powershell.

Education:
University of Virginia: 2022 - (Expected) May 2024
B.S in Computer Engineering GPA: 3.7/4.0
• **Relevant Coursework:** Electrical Engineering Fundamentals, Computer Systems, Data Structures/Algorithms, Object-Oriented Programming, Digital Logic Designs, Computer Architecture, Databases, Linear Algebra, Probability/Statistics, Embedded Systems Design.

George Mason University: Honors College 2020 - 2022
B.S in Bioengineering GPA: 4.0/4.0
• **Relevant Coursework:** Organic Chemistry, Biomaterial Designs, Intro to Engineering

Projects:
Full Stack Tutoring Log app - Java, Kotlin, Python
• Responsible for Back/Front end. App features include: keeping track of tutoring sessions, reminding students of upcoming sessions, embedded calendar, and a to-do list system.
• Used SQL to manage account log-in and tutoring logs.
• Implemented using Android Studio, Figma was used for app layout design.
• Created a Python bash script to allow efficient testing.
64-bit RISC CPU - VHDL, C,Python
• Developed a fully functional 64-bit RISC architecture CPU from scratch.
• CPU is capable of performing all simple arithmetic operations
• Developed Python scripts for rigorous testing of all components

Experience:
Tutor, *Kaplan Cohen Tutoring*

October 2021 - Present
• Tutored students from high school to college-level predominantly STEM-related courses, including SAT/ACT maths.
• Courses tutored: Python, Java, Algebra 1/2, Geometry, Precalc - Calculus AB/BC, AP Bio, AP Chem, Gen Chem 1/2, and Orgo 1.

Medical Assistant/ Lead Extern, *Capital Vision*

June 2021 - June 2022
• Led, trained, and guided other externs.
• Assisted in laser surgeries, SLT, and other eye procedures.
• developed interpersonal communication skills.

Tutor, *Tutoring Club of Mclean*

July 2021 - September 2021
• Tutored 3 students simultaneously mostly STEM-related subjects. Predominantly high school and college-level courses, including SAT/ACT.
• developed interpersonal communication skills with students and intensive multitasking.

Research:
Research Intern, *NeuroMorpho Volgenau School of Engineering*

August 2021 - Dec 2021
• Reconstructed 3d neurons leveraging Python and Java.
• Modified User-Interface for the NeuroMorpho website to allow more efficient searching.
• Analyzed biomedical engineering-related research papers.

Volunteering:
Volunteer EMT, *Falls Church Volunteer Fire Department*

September 2021 - August 2022
• Assessed injury and illness, administered appropriate medical treatment to patients, communicated with medical personnel at hospitals, performed vitals
• Orchestrated events to educate the public on fire safety, especially in schools.