

SON VU

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EDUCATION

University of Pittsburgh

Bachelor's, Computer Engineering

August 2019 - May 2025

GPA: 3.5

- Relevant Courses: Computer Architecture, Data Structures & Algorithms, Software Engineering (Microservices, REST API), Embedded System (STM32), Computer Networks (TCP/IP)

PROFESSIONAL EXPERIENCE

Philips Respireonics

Software Engineer Co-op

Pittsburgh, PA, USA

August 2023 - Present

- Implemented unit and component testing for Kafka messaging queue integration with enterprise Java Spring Boot backend application using Junit and Mockito
- Developed health patients POU graphs component in JavaScript using Angular and React over 3 Rally sprints within Agile Scrum environment
- Developed Java and Python scripts to process approximately 1.4 million and 1.7 million patients and equipment assignment records respectively from MongoDB using Studio 3T

SHREC

Research Assistant

Pittsburgh, PA, USA

May 2022 - August 2022

- Researched pre-image processing techniques and FPGA hardware acceleration to minimize latency in object identification and hand segmentation
- Implemented software and hardware emulation in C/C++ for Gaussian and Sobel filters using Vitis on Ubuntu OS, achieving 67% reduction in latency.

Vietsoftpro

Engineer Intern

Hanoi, HI, Vietnam

March 2021 - July 2021

- Researched technological solutions for virtual reality and 3D representation using Python for webs crape
- Designed a 3D layout of the Temple of Literature using SketchUp to analyze product placement

PROJECTS & OUTSIDE EXPERIENCE

JobScope

Pittsburgh, PA, USA

May 2024 - Present

- Developed a SaaS platform enabling students to analyze job market requirements with React and MUI frontend, Java Spring Boot backend, and PostgreSQL Docker container
- Implemented RESTful APIs on frontend and backend to navigate data for visualization using Chart.js library
- Deployed platform to an AWS EC2 instance using SSH protocol, Nginx and implemented simple CI/CD pipeline using GitHub action

Budget Friendly Timular

Pittsburgh, PA, USA

January 2023 - May 2023

- Led end-to-end product development, encompassing hardware design, circuit board layout (Altium Designer), component sourcing, software development (C/C++), and final soldering and assembly
- Achieved a 25% cost reduction compared to the Timeular device by eliminated tiered subscriptions

Logical Unit Construction

Pittsburgh, PA, USA

August 2022 - December 2022

- Developed logical units, including 32-bit adders, ALU, and a 32-bit CPU in VHDL using Xilinx Vivado
- Implemented test benches for behavioral and hardware simulations using C/C++ and VHDL

Computational Modeling and Simulation

August 2022 - December 2022

- Utilized physics models and formulas to generate precise visual simulations with Vpython
- Simulated projectile motions, air resistance, orbits, and gravitational physics models

SKILLS

Skills: Java, Python, JavaScript, TypeScript, REST APIs, React.js, AngularJS, MongoDB, JUnit, Digital Ocean, Docker, Kubernetes, Apache Kafka, Gradle, Maven, Confluence, JIRA, Agile, Git, HTML/CSS, Java, Altium, Python, C/C++, Spring, Rally, Slack, Confluence