

Lucas Yannul

North Wales, Pennsylvania

EDUCATION

Villanova University – College of Engineering

Aug 2019 – May 2023

Bachelor of Science in Computer Engineering | Minor in Computer Science

- GPA: 3.99 / 4.0
- Dean's List all semesters

Tau Beta Pi – Engineering Honor Society

Nov 2021 - Present

- Inducted into the honor society for being in the top 10% of the Villanova College of Engineering Junior class

SKILLS

Languages

Java | JavaScript | TypeScript | C | C++ | HTML | CSS | MATLAB | VHDL

Tools & Frameworks

React.js | SpringBoot | REST APIs | Git | Jira | Development on FPGA's

WORK EXPERIENCE

JPMorgan Chase & Co.

May 2022 – Aug 2022

Software Engineering Intern

Wilmington, DE

- Created a mobile virtual assistant chatbot using React.js and SpringBoot to help business teams working with Ultra-High-Net-Worth clients in accessing client asset and liability information while on the go
- Integrated the chatbot into the company's existing internal mobile application for use firm-wide
- Built the UI for the application by leveraging the open source React-Chatbot-Kit library to mirror the existing desktop application's appearance in addition to writing custom UI components for quick user responses to chat messages
- Developed the message polling functionality using Axios on the front-end and a SpringBoot backend to allow the application to read messages coming from the conversations API and render those messages on the screen
- Created a front-end file downloading service using Axios and a SpringBoot backend which allowed the application to read a stream of data from the conversations API and convert it to a PDF and render it for viewing in the chat window

ICANON Associates

May 2021 – Aug 2021

Software Engineering Intern

Hatfield, PA

- Developed a plugin for the Thunderbird email client utilizing JavaScript, JSP's, HTML, and CSS that allowed the support staff to log tickets to their database and automatically tag new incoming emails based on their ticket status
- Collaborated with the software development team on the company's major initiative to redesign their newspaper management software
- Migrated the existing application from a Java-based Swing application to a web-based JavaScript and HTML version by creating JSP's to access and modify back-end information based on information submitted on the website
- Wrote code in Java and JavaScript to price advertisements based on image size and location in addition to creating a payment form that allows an accountant to mass enter payments for subscriptions in the form of paper checks

PROJECTS

Reaction-Timer Circuit

Sept 2021

- Developed a circuit on a FPGA board to measure a user's auditory response time down to the millisecond using an audio transducer, a button for the user response, and a seven-segment display for the time
- Created the circuit using VHDL and Quartus schematic files and simulated in Modelsim for testing

MIPS Processor

Sept 2021

- Developed a 32-bit single cycle and a 32-bit pipelined MIPS processor that supports a basic instruction set using VHDL and Quartus, simulating and verifying each cycle of each processor using Modelsim

SMARTBEAM Mini Project

Sept 2019

- Led a group of three in designing, constructing, and analyzing a wooden beam using an Arduino and C code
- Performed stress and strain tests on the beam in Villanova's structures lab using our circuit to analyze the forces

ACTIVITIES & VOLUNTEER WORK

Rays of Sunshine, Tutor | Volunteer

Jan 2021 – Present

Villanova Special Olympics, Volunteer | Inclusion Crew

Nov 2019 – Present

Villanova University Club Lacrosse, Player | Treasurer

Sept 2019 – Present