

XANDER HUGHES

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CAREER SUMMARY

Aspiring 2024 Computer Science graduate with experience spanning both startup and corporate environments. Since freshmen year, I played a pivotal role at Renndvous, where I served as the sole developer and creative director, enriching my knowledge in full-stack development. This experience gave me the confidence to apply for a full-time job posting at Lancaster Design and Consulting where I continued to hone my development skills over the summer of 2022. My contributions led to my continued employment through the school year working flexible hours. In the summer of 2023, I was selected for an internship at Cisco, where I advanced my full stack development skills. I left an indelible mark on the team, exemplified by my manager's acknowledgment that I seamlessly integrated as a dependable, full-time asset, not just a college intern.

TECHNICAL SKILLS

Programming Languages: TypeScript | Python | Java | JavaScript | PHP | HTML | CSS | C | C# | Verilog

Database: SQLite | MySQL | MariaDB | PostgreSQL

Platforms/Frameworks/Libraries: Vue | Node | React | Express | Alpine | Quasar | .NET | Tailwinds | WordPress | Django

DevOps: Docker | Deployment Scripts | Backups | Jira | Jenkins | Cypress | SSH Tunnelling | Rsync

PROFESSIONAL EXPERIENCE

Technical Intern 1

Cisco

San Jose, CA

05/2023 – 08/2023

- Quickly learned the React framework from scratch within the first week of employment due to my prior experience with multiple JS frameworks/libraries
- Refactored over 15 UI components in Cisco's Secure Access Application Suite to leverage a newly developed internal library
- Utilized Jest, Cypress, and Jenkins to add Unit Tests and Functional Tests to 100% of all new source code implemented
- Fixed issues in Cisco's Secure Access Application Suite to satisfy 15+ companies in a private beta test. Additionally fixed issues on Cisco's Umbrella production application to serve a customer base of 24,000+ companies including Uber, Netflix, and T-Mobile
- As a member on a team of 7, I attended daily standup meetings to assign Jira tickets/issues and plan out workflows
- Utilized a Jira based Kanban workflow for all feature development and bug fixes
- Became the top code contributor for several repositories in Cisco's Secure Access Application Suite from May to August
- Received high praise for the work I documented in a PowerPoint that I presented to the entire Cisco Security Web Group including from project managers and directors.

Partner/CTO

Renndvous

Towson, MD

01/2022 – Current

- Engineered RESTful APIs in PHP to be used in the construction of a mobile app to expand our user base to 3,000+
- Established an event platform for car enthusiasts, incorporating secure Stripe payment processing and a digital ticketing system in JS and PHP, serving a community of 3,000+
- Implemented data validation for all API requests, including data sanitation and validation, focusing on making all data being entered into the database not just safe but also clean
- Created database queries to extract data for analytics and essential site operations from tables containing over 1 million rows. Optimized these queries through both server-side and client-side data processing, and implemented indexes across 50+ tables for enhanced efficiency
- Constructed a staging server to stage new features and take backups of the production site using rsync every night
- Overhauled and face lifted the site using Tailwinds CSS, Alpine JS, and custom HTML components
- Attended 20+ social media events, filming and editing short clips for a total audience of 150,000+ followers
- Grew user base by 4x

Full Stack Developer

Lancaster Design and Consulting

Lancaster, PA

06/2022 – Current

- Developed in house web apps for local companies and the Amish using Vue JS, TypeScript, and PHP that involved managing 10,000+ products and 10,000+ customers per company
- Upgraded and managed Linux servers and SQL databases to host in house and ecommerce sites
- Optimized database queries and DOM loading times, took one page's loading time down from 20 seconds to half a second
- Created an application to update products on an E-Commerce WordPress site with products configured in an admin console built in Vue JS, decreasing the time it takes to load the products to the WordPress site from 1 day to 20-30 seconds. These changes helped contribute to allowing the company \$1 million+ in revenue for the site
- Removed need for Invoice Ninja's monthly payment system to store data and generate invoices by implementing an in-house custom invoice generator and invoice database. Added additional invoicing features such as audits and reports
- Migrated old applications from Vue 2 to Vue 3 Composition API reducing load time on sites and increasing future compatibility
- Produced several data reports and audits to gather information about customers, products, mismatches in data, and revenue
- Initiated development on a site to maintain a database of 10,000+ residents in a community for a fire house, involving reports for fire calls, forms to keep attendance for meetings and to track fire calls to residents

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EDUCATION

Bachelor of Science **Pace University** *Pleasantville, NY* **08/2021 – 05/2024**
Major in Computer Science | Honors: Dean's List First Honors | GPA: 3.8 | Pforzheimer Honors College

RELEVANT COURSEWORK

CS | Algorithms & Computing Theory | Computer Organization | Software Engineering | Unix & C | Operating Systems
CIS | Design Thinking & Innovative Topics

ACADEMIC PROJECTS

8 Bit FPGA **01/2023 – 05/2023**

- Conceptualized and developed an 8-bit CPU on an FPGA board using Verilog
- Utilized Intel's Quartus 2 software to visualize logic components before building them out in Verilog
- Programmed the Verilog code into the FPGA board using Quartus 2
- Researched and built a custom 8-bit instruction set to perform basic operations like ADD, SUB, MUL, and MOV, LDA, OUT
- Composed an 8-bit instruction code; the first 4-bits are the Operation Code, next 2 is the 1st Register, final 2 is the 2nd Register
- Presented the 8-bit CPU to the at Pace University's Undergraduate Study Fair, informing the department chair of the project

Computer Organization **01/2023 – 05/2023**

- Every week was assigned a new C program to debug and fix. Most notably fixed DGEMM matrix multiplication, memory leaks, buffer overflow vulnerabilities, and deadlocks
- Became verse in the utilization of makefiles for compiling code with GCC

RightPay **08/2023 – Current**

- Designed and developed an app using PERN (PostgreSQL, Express, React Native, Node) to display a user's optimal credit card for cashback rewards, determined by the user's physical location
- Curated 10+ designs on Figma to preview what the application will look like and produce a quick way of converting flats into dynamic screens on the mobile application

Blue CoLab **08/2021 – 12/2022**

- Developed a web app to display weather data from a weather station; compared the data to current water data every minute
- Packaged a Sonification python module into the Blue CoLab website to Sonify real time data in under 500 ms
- Customized a health dashboard that shows when sensors need re-calibrated using statistical analysis with 90% accuracy

AWARDS

E-Fest: A competition hosted by the founder of Best Buy, won 2nd in heat, top 10 of 60 finalists from 100's of entries **04/2022**
Golden Lion Film Festival: A prestigious high school film festival, selected for a PSA and Music Video **03/2021**

LEADERSHIP

NCAA Student Athlete Ambassador Committee **05/2022 – Current**

- Representative for Pace University's Swimming and Dive Team
- Accompanied other ambassadors at meetings. Voted on over 20 new NCAA rules. Planned and hosted fundraising events

Pace University Peer Leader/Teacher's Assistant in University 101 **09/2022 – Current**

- Guided first-year student's assimilation into university life. Gave advice to scores of students on how to be successful

Pace University Resident Assistant (RA) – Freshman Dorm **09/2022 – Current**

- Selected by Residential Life as a 1st year to be an RA as a 2nd year, aided 100+ residents throughout 2 years of RA'ing
- Planned 5 events and created 5 bulletin boards every semester. An average of 25/33 students attended each event

MiniTHON **08/2018 – 05/2021**

- Planned and organized events, raising the most funds among Hempfield High School seniors for pediatric cancer in 2021
- Gathered over \$100,000 in 2019 to directly assist with a friend's pediatric brain cancer treatment

Senior Lifeguard at Hempfield RecCenter **08/2018 – 05/2021**

- Oversaw the safety, wellbeing, and cleanliness of the pool environment
- Have experience in pressure situations as I have been involved with several incidents at the pool that have required quick thinking and action to save multiple patrons

ACTIVITIES

In The Net/Frozen Ropes Softball, volunteer **04/2017 – 08/2021**
Swimming, Film, Cinematography, activities / interests