

Jimmy Huynh

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EDUCATION

Virginia Polytechnic Institute and State University.	Blacksburg, VA
Currently Pursuing a Bachelor of Science in Computer Science	
GPA – 3.30	Grad: May 2023

PERSONAL PROJECT EXPERIENCES

Fork-Join Framework (Multithreading) – C	10/2022 – 10/2022
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- Achieved a successful implementation of a small fork and join framework that allows for parallel execution of programs*
- Created a thread pool implementation that allows for dynamic task parallelism.
 - Enhanced efficiency by utilizing a work stealing thread pool approach to reduce contention of working tasks.
 - Correctly utilized pthread mutexes to synchronize tasks and to allow for parallelism execution of tasks.
 - Handled collaboration with team by properly using Git and to document code changes.

Cush (Bash Shell Implementation)- C	09/2022 – 09/2022
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- Recreated the Bash Shell in which the user is able send commands to start foreground & background processes.*
- Effectively worked in a team to collaborate a mock shell terminal implementation.
 - Reprised C to understand job processes and how background & foreground processes work.
 - Implemented simple built-in commands (i.e., ‘jobs’, ‘fg’, ‘bg’, ‘kill’, ‘exit’, and ‘stop’).
 - Successful used Git to provide proper documentation and to collaborate on code.

Resume Website- HTML, CSS, React.js	08/2022 – 08/2022
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- Formulated a new way to view my resume by devising it into a website format.*
- Designed and deployed a website with 12 functional animations using responsive web design.
 - Utilized frameworks HTML, CSS, React.js to implement critical website features.
 - Deployed using React Router DOM/ node.js to redirect client-side routing.
 - Successfully incorporated Google Analytics to collect data on user traffic to website.

Geographic Information System (GIS) - Java	03/2022 – 04/2022
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- Responsible for designing a system to effectively store and search for geographic features.*
- Produced a GIS application to parse command line files which outputted geographic records for 50+ command.
 - Managed data collection using a multi-integrated data structure database.
 - Retrieve 100+ daily records by matching specific key features by geographic coordinates, names, states.
 - Utilized hash table, bucket PR quadtree’s, and Buffer Pool as a front-end implementation to improve search.

Life Listed Application- Kotlin	09/2021 – 12/2021
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- Took initiative to reform and create a new mobile application that manages daily tasks into a simpler user interface.*
- Developed a mobile application called Lift Listed, a to-do management application that allowed users to write down tasks for the day and to make it much easier to use.
 - Learned to streamline the process and simulate an agile development environment.
 - Simplified the user interface, storyboard creator, and setting development goals to stay on track.
 - Implemented development practices such as maintaining documentation, GIT repository management, configuration management, and continuous deployment.

KEY TECHNICAL SKILLS

Java, Python, C, C++, Kotlin, JSON, NodeJS, D3/P5, SQL, MATLAB, REST APIs, Server Deployment, PowerPoint, RStudio, Linux, JavaScript, Agile Methodology, Git, React, HTML/CSS, Effective Communication, Heroku

WORK EXPERIENCE

Food Lion (Cashier & Grocery Stocker)	03/2020 - 07/2020
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- Contributed to store by managing their points of sale systems providing experience with professionalism and time management skills.
- Acted as a point of contact between management and employees to optimize operations and deliver
- Worked effectively with the team of multiple instances