Thomas **Jones-Moore**

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Github.com/thomasjonesmoore

Skills

Languages: Java, C, Python, R, SQL, C#, x86 Assembly, Racket, Matlab
Tools: Git, XML, LaTex, HTML/CSS
Knowledge: Agile/Scrum/Kanban, OOD/OOP, Algorithm analysis, Polymorphism, Dynamic programming, Synchronization, Unix, Mathematics (Discrete, Statistics, Calculus), Networking Tools, MVC, Socket API

Undergraduate Research

Feb 2019 - Present	**Human Activity Recognition**, Participated in Western Washington University's Scholars Week with publications in the academic publication database CEDAR. Creating a cost estimation model and optimization engine for a smart home in a procedural generated virtual environment. Utilizing AI, IoT, and workflow recognition techniques. Pursuing IEEE conferences in future.	*WWU*

Projects

Board Game *Java*
Designed using Use Cases, UML, and visual Class Diagrams. Worked with team of 4 for the implementation stage. Tri-weekly meetings held to discuss project goals and progress. Board game UI written with Java Swing and AWT, utilizing MVC.

Networked Chatroom *C*
Multi-client capable chatroom with usernames, private and public messages. Uses fd_sets, selects, accepts, timeval structs, parallel arrays, wrapper functions, safe send/recv, and socket descriptors.

SQL Database *SQL*
Program first outlined using framework for future required operations. Collaborated with 2 other people to complete a SURLY specified database written in MySQLWorkbench. Includes advanced relational algebraic expression queries and variable size table output.

Big Data Network Analysis *R*
Makes inferences about data using k-cores, bipartite models, node/subgroup correlations, and network analysis employing igraph sub packages.

Multi-Threaded Jacobi's *C*
A multi-threaded application of Jacobi's algorithm. Takes advantage of pthreads, barriers, custom data structures, and recursive behavior.

Education

Western Washington University *Bellingham, WA*
BS in Computer Science *Sep 2015 – Estimated March 2020*

Professional Experience

Western Washington University *Bellingham, WA*
Software Development Team Lead *Feb 2019 – Present*
- Worked with team of 3 to create SRS, technical analysis, and project proposals
- Used Scrum and Agile methodologies to define goals and expectations

Papa Murphy's *Lynnwood, WA*
Shift Coordinator *Jun 2014 – Jan 2019*
- Applied directive style management techniques
- Effectively coordinated a team of 10 members with diverse skills