

# Thomas Jones-Moore

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## Skills

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**Languages:** Java, C, Python, R, SQL, C#, x86 Assembly, Racket, Matlab, HTML/CSS

**Tools:** Node.js, Git, Express, MongoDB, LaTeX, Heroku, XML/Json

**Knowledge:** Agile/Scrum/Kanban, OOD/OOP, Algorithm analysis, Polymorphism, Dynamic programming, Synchronization, Unix, Mathematics (Discrete, Statistics, Calculus), Networking Tools, MVC, Socket API

## Undergraduate Research

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Feb 2019 - Present	<b>Human Activity Recognition</b> , 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
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## Projects

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<b>Board Game</b>	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.	Java
<b>Networked Chatroom</b>	MULTI-CLIENT CAPABLE CHATROOM WITH USERNAME, PRIVATE AND PUBLIC MESSAGES. USES FD_SETS, SELECTS, ACCEPTS, TIMEVAL STRUCTS, PARALLEL ARRAYS, WRAPPER FUNCTIONS, SAFE SEND/RECV, AND SOCKET DESCRIPTORS.	C
<b>SQL Database</b>	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.	SQL
<b>Big Data Network Analysis</b>	MAKES INFERENCES ABOUT DATA USING K-CORES, BIPARTITE MODELS, NODE/SUBGROUP CORRELATIONS, AND NETWORK ANALYSIS EMPLOYING IGRAPH SUB PACKAGES.	R
<b>Befrend (Web App)</b>	CREATING A WEB APP OPTIMIZED FOR ANDROID. FRONT END CREATED WITH NODE.JS + EXPRESS, BACK-END DATABASE CREATED WITH MONGODB, HOSTED ON HEROKU. WENT FROM ZERO KNOWLEDGE TO FULLY WORKING APP IN 4 WEEKS.	Node.js, Express, HTML/CSS

## Education

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<b>Western Washington University</b>	Bellingham, WA
BS IN COMPUTER SCIENCE	Sep 2015 - Estimated March 2020

## Professional Experience

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<b>Western Washington University</b>	Bellingham, WA
SOFTWARE DEVELOPMENT TEAM LEAD	Feb 2019 - Present
<ul style="list-style-type: none"><li>Working with team of 3 to create SRS, technical analysis, and project proposals</li><li>Applying Scrum methodologies for weekly sprints to prepare for industry</li></ul>	
<b>Papa Murphy's</b>	Lynnwood, WA
SHIFT COORDINATOR	Jun 2014 - Jan 2019
<ul style="list-style-type: none"><li>Effectively coordinated a team of 10 members with diverse skills. Sole manager for half of everyday.</li><li>Produced timely orders, managed all money, and ensured customer relation satisfaction.</li></ul>	