

# Taha M. Rangwala

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## OBJECTIVE

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- I am a self-motivated and determined individual with the goal of gaining high level expertise in the field of Software Development and Computer Engineering. My interests include Machine Learning, Cybersecurity, and Data Science.

## TECHNICAL SKILLS

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- Languages: C++, Java, Python, C, HTML, CSS, JavaScript, PHP, Visual Basic, Assembly Language, Verilog, MATLAB in Windows environment. Some experience with the Linux environment
- APIs: OpenGL, WebGL
- Applications: Visual C++, Eclipse, PowerShell, Code Composer Studio, Quartus. Website: <https://taharangwala.com/>
- Development Tools: CMake, Vagrant, Git Bash, Virtual Box, Node.js. GitHub: <https://github.com/taharangwala>

## EDUCATION

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**Virginia Polytechnic Institute, B.S. Computer Engineering (GPA: 3.18)** Blacksburg, VA | **Graduation May 2021**

- Relevant Courses: Applied Software Design in C++, Data Structures and Algorithms with C++, Engineering Problem Solving with C++, Microcontroller Programming/Interfacing, Intro to Computer Engineering, Electric Circuit Analysis, Differential Equations, Signals and Systems, Intro to Discrete Math, Artificial Intelligence and Engineering Applications, Digital Image Processing, Network Application Design
- Clubs/Organizations: Cybersecurity Club, Students for Exploration and Development of Space at Virginia Tech (SEDS), Sigma Phi Delta Engineering Fraternity
- Applied Software Design Project: Composed a calculator application in C++ for large integers using QT and multithreading
- Microcontroller Programming Project: Devised an electronic Simon Game on a Microcontroller with pushbuttons, LEDs, joysticks, and light sensors using C
- Data Structures and Algorithms Project: Engineered an application to perform polynomial math using LinkedLists and Stacks in C++
- Introduction to Computer Engineering Project: Developed a program to monitor different processor instructions in Assembly Language

## PROFESSIONAL EXPERIENCE

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**ShipFit, Full Stack Developer** Westford, MA | **May 2020 – Present**

- Designed packaging software that calculates the most efficient way to put items in a package
- Developed the backend software using C++ and OpenGL
- Created a website, <https://shipfit.net/>, with PHP, HTML, CSS, JavaScript, AJAX, and WebGL to make a user-friendly environment to run ShipFit (in alpha)

**MIT Lincoln Laboratory, Research Intern (Canceled due to COVID-19)** Lexington, MA | **May 2020 – August 2020**

- Planned to work with Digital Image Processing in the Integrated Systems and Concepts Group at MIT Lincoln Labs

**Dassault Systèmes, Software Engineering Intern** Waltham, MA | **May 2019 – August 2019**

- Formulated client care support system using Java and Drools business rule management engine
- Established novel on-boarding site for partners employing gamification with HTML, CSS, JavaScript, and PHP
- Created new badging system for use as employee incentive tool with PHP and MySQL Database Management System

**Avid Technologies, Capstone Engineering Intern** Westford, MA | **April 2017-May 2017**

- Developed Tic-Tac-Toe and FlexFit Fitness App using Java and XML in Android Studios

## LEADERSHIP EXPERIENCE

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**Boy Scouts of America, Eagle Scout** Westford, MA | **June 2010 – June 2017**

- Completed Eagle Scout Service Project designing and heading construction of boardwalk for Westford Public Schools
- Served as Troop Guide, Instructor, and Junior Assistant Scoutmaster directing outings and guiding younger scouts

**BSA Philmont Scout Ranch Crew Leader** Cimarron, NM | **July 2016 – August 2016**

- Elected to lead Boy Scout Crew through 100+ miles of backcountry mountain range hiking
- Responsible for conflict resolution, team cohesion, group communication

## INTERESTS

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- Proficient in Microsoft Word, Excel, PowerPoint
- General: Exercise, running, classical piano, unicycling