

Tim Giles

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First generation graduate from Christopher Newport University with Bachelor's and Master's degrees in Computer Science. Self-starter with entrepreneurial spirit. Seven years of work experience in varied fields such as tutoring, teaching, and software engineering. Diversified skill-sets covering object-oriented programming, functional programming, agile methodology, data structures with an emphasis on graphs, and problem solving.

Education

Academic Qualifications.....

- **Christopher Newport University** **Newport News, VA**
M.S. in Computer Science, GPA: 3.90
Thesis: Planning Footsteps of Humanoid Robots
Aug. 2016 – May 2018
- **Christopher Newport University** **Newport News, VA**
B.S. in Computer Science, Cum Laude, GPA: 3.52
Aug. 2012 – May 2016

Notable Projects.....

- **Masters Thesis:** *'Planning Footsteps of Humanoid Robots'*
I worked with Team ViGIR's open source footstep planner to create an accurate configuration for a small laboratory robot, as well as fix bugs that prevented accurate 2D planning. This involved learning about many different frameworks and systems to understand the project. Additionally, I implemented a custom plugin in the system.
- **Undergraduate Capstone:** *'Data Visualization of Theoretical High-Energy Physics Papers'*
Using tools such as JavaScript, PHP, MySQL, Bootstrap3, and D3js, I was able to generate a graph of archived papers in a large database, linked by citations. The intent was to create a visual gatekeeping system for academics.

Previous Employment

- **Port Technology Services** **Norfolk, VA**
Software Engineer
May 2017–Nov. 2017
Developed front-ends for web applications using Angular 2/4+, Redux, and TypeScript. Debugged our CI/CD pipeline which consist of TeamCity and Octopus Deploy. Helped establish JIRA as the primary issue tracker and helped develop the workflow for issues. Worked with .NET Framework/ASP.NET/.NET Core and helped debug back-end software.
- **Christopher Newport University** **Newport News, VA**
Graduate Lab Assistant
Aug. 2016–Aug. 2017
Instructed students in intermediate Java concepts: Inheritance, polymorphism, fundamental abstract data containers, file I/O, etc. Additionally, taught students how to use basic version control: adding, pulling, pushing, and merging simple conflicts.
- **Christopher Newport University** **Newport News, VA**
Computer Science Tutor
Sep. 2014–Aug. 2016
Primarily tutored students on Java but included JavaScript and Python as needed.
- **iD Tech Camps** **Williamsburg, VA**
Lead Instructor
Jun. 2016–Aug. 2016
Administered medications daily, performed first-aid as needed. Tutored and mentored students in Java, Python, and C++.

Technical and Personal Skills

- **Technologies:** Proficient in: Java/C#, JavaScript, TypeScript, Angular 2/4+, Git, SQL, Relational Databases, Python, Windows 7/10, Linux, LAMP Stack, LaTeX, ROS
Competent with: ASP.NET, C++, TeamCity, Octopus Deploy, Bamboo, MSBuild, PHP.
- **General Business Skills:** Useful presentation skills, performs well in a team, effective communicator.