

Tim Giles

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Recent graduate from Christopher Newport University with Bachelor's and Master's degrees in Computer Science. Seven years of work experience in varied fields such as tutoring, teaching, and software engineering. Diversified skill-sets covering object-oriented programming, functional programming, 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: 3.88
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 system. 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.
- **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
Tutored students on HTML, JavaScript, Python and Java. The majority of the work was intermediate Java help.
- **iD Tech Camps** **Williamsburg, VA**
Lead Instructor
Jun. 2016–Aug. 2016
Administered medications on a daily basis, performed first-aid as needed. Tutored and mentored students in Java, Python, and C++.

Technical and Personal skills

- **Programming Languages:** Proficient in: Java/C#, JavaScript, TypeScript, Python, LaTeX, ROS
Also basic ability with: C++.
- **General Business Skills:** Good presentation skills, works well in a team.
- **Other:** Can write well organised and structured reports.