

# Hayden Coffey

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LinkedIn: hcoffey1  
GitHub: github.com/hcoffey1

## EDUCATION

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<b>University of Tennessee</b> M.S. in Computer Science, Current GPA: 4.00/4.00	Knoxville, Tennessee 2019–Current
<b>University of Tennessee</b> B.S. in Computer Science, <i>summa cum laude</i> , GPA: 3.95/4.00	Knoxville, Tennessee 2015–2019

## EXPERIENCE

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<b>University of Tennessee</b> Graduate Research Assistant at CORSSys	Knoxville, Tennessee Fall 2019–Present
<ul style="list-style-type: none"><li>– Automatic Cold Data Compression Using Zswap</li><li>– Working under the direction of Dr. Michael R. Jantz on a system that utilizes a modified Zswap program to automatically mark, compress, and manage cold data.</li></ul>	
<b>University of Tennessee</b> Undergraduate Research Assistant	Knoxville, Tennessee Fall 2018–Spring 2019
<ul style="list-style-type: none"><li>– Supporting Code Comprehension via Annotations: Right Information at the Right Time and Place</li><li>– Worked under the direction of Dr. Austin Z. Henley. Collaboration with Oregon State University on the development of an Electron based IDE written in Typescript. Aimed to visually represent software projects with files being cards that could be moved/stacked alongside annotations that could be used to detail project designs.</li></ul>	
<b>SAIC</b> Software Engineer Intern	Huntsville, Alabama Summer 2019
<ul style="list-style-type: none"><li>– MEDUSA Project</li><li>– Counter-drone system. Worked as a member of the Core team and developed in Java. The Core team designed and implemented software models and paradigms so that other teams' work could be combined into a system. Received secret security clearance.</li></ul>	
<b>University of Tennessee</b> Undergraduate Research Assistant	Knoxville, Tennessee Fall 2016–Spring 2017
<ul style="list-style-type: none"><li>– Study of CDC42</li><li>– Assisted in research on the protein CDC42 under the direction of Dr. Maitreyi Das.</li></ul>	

## PUBLICATIONS

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- [1] M. Adeli, N. Nelson, S. Chattopadhyay, **H. Coffey**, A. Henley, and A. Sarma, “Supporting Code Comprehension via Annotations: Right Information at the Right Time and Place”, in *2020 VL/HCC*, Aug. 2020.

## TEACHING

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- **Head Teaching Assistant** at University of Tennessee, Knoxville Fall 2020  
*Computer Architecture (COSC 530)*
- **Head Teaching Assistant** at University of Tennessee, Knoxville Fall 2019–Summer 2020  
*Computer Organization (COSC 130)*
- **Supplementary Instruction Leader** at University of Tennessee, Knoxville Fall 2018  
*Introduction to Computer Science (COSC 102)*

## SKILLS

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- **Programming Languages:** C | C++ | Python | Julia | Java | JavaScript | TypeScript | HTML | CSS
- **Software:** Git | SVN | Open MPI | OpenMP | CUDA | SDL | Unity | Godot | Vim
- **Operating Systems:** Linux | Windows

## LANGUAGES

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- **English:** Fluent.
- **Spanish:** Conversational.
- **Japanese:** Basic.

## PROJECTS

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See full list of projects on [github.com/hcoffey1](https://github.com/hcoffey1)

- RL Scheduler (C, 2020)  
Temporal Difference based page scheduler simulator.
- Side Mountain (C++, SDL, 2020)  
2D game engine written in C++ using SDL.
- Worley (C++, SDL, 2020)  
Worley noise generator/visualizer.
- Cube Hunters (C#, Unity, 2019)  
Unity game with “sumo” mechanics.

## SCHOLARSHIPS AND AWARDS

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- Tennessee HOPE Scholarship - Merit Scholarship Recipient
- The University of Tennessee - Volunteer Scholarship Recipient

## EXTRACURRICULAR ACTIVITIES

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- Tau Beta Pi 2018–Current  
*Engineering Honors Organization.*
- UTK Machine Learning Club 2018–Current  
*Executive board member of University of Tennessee machine learning club.*
- University of Tennessee, Chancellor’s Honors Program 2015–2019  
*Liberal arts honors program with focuses on volunteer service and research.*
- Engineering in London Summer 2018  
*University of Tennessee study abroad program in London, England.*
- Alternative Winter Break Fall 2017  
*University of Tennessee volunteer program in Havana, Cuba.*
- Volunteer Service  
*100+ registered service hours at the University of Tennessee, Knoxville.*
- Eagle Scout  
*Boy Scouts of America.*