

KACY LUKER

University of Tulsa: Senior

Computer Science and Mathematics Double Major, Minor in High Performance Computing

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SUMMARY

I am attending The University of Tulsa as a double major - Computer Science and Mathematics, minoring in High Performance Computing. My work experience includes working and communicating within a development team on the full stack of production level code, architecting and implementing solutions for projects with various specifications, presenting and communicating results with management, and collaborating with a team using Git. My strongest skills are adaptability, communication, and work ethic.

WORK EXPERIENCE

Paycom Fall Internship (Current)

Team member for the research team within Paycom. I am working on issues within projects assigned to the research team.

Paycom Summer Internship (Pair Programing Tool)

Team member for development of a cross platform/IDE real-time collaborative editor. I worked on a team of four interns to develop a backend API containing a Conflict-Free Replicated Data Type (CRDT) and a frontend extension for Visual Studio 2019 that allows a team of programmers to work on the same project simultaneously. This in house tool was developed to ensure all traffic stayed within Paycom's local network. My responsibilities within the team included researching potential solutions, designing architecture, implementing an API with a CRDT in C#, and developing and implementing a corresponding frontend extension for Visual Studio 2019 in C#.

Cyber Physical System (CPS) Security Threat Analysis Research Grant

In the research lab I worked to develop small, remote-controlled cars that were used to test an attack graph generating program. My responsibilities included building hardware, soldering physical components, and assisting with programming cars to use the CAN protocol. I also created a lab schematic drawing for the team's research poster presented at the 2019 National Science Foundation Research Poster Competition.

Teaching Assistant for Tulsa Public Schools Outreach Program

This was a rewarding volunteer opportunity teaching elementary school students wanting to learn more about programming. We met weekly, during the school year, working as a team to help 5th graders develop a computer gaming application. The program utilized the student's beginning programming skills and ended with a completed computer game simulation that the team entered in the Heartland Gaming Expo.

Education

University of Tulsa – majoring in Computer Science and Mathematics, High Performance Computing minor

- 2017 to Present, Classification: Senior (5th Year), Overall GPA: 3.689
- 2018, Study Abroad semester at the University of Auckland, New Zealand
- May 7, 2022, Anticipated Graduation

Technical Skills

Operating Systems – Linux, Windows, Apple MacOS
Programming – Java, C, C#, PHP, Python, HTML, JS
Version Control – Git, Git Bash, Bitbucket, Git Hub
MS Office: Excel, Word, PowerPoint, Visio, Teams
Production Development – Paycom Intern

Recognition

University of Tulsa President's List – 2 Semesters
University of Tulsa Dean's List – 4 Semesters
Awarded – Professor led research – Security focus
Co-author CPS Testbed Project Research Poster
TOP 10% - Broken Arrow High School (4.3 GPA)

Extracurricular Activities

Founding Vice President of Women in Cyber Security Chapter – University of Tulsa
NASA Robotics Club Team Member – University of Tulsa
Teaching Assistant – University of Tulsa Outreach program
University of Tulsa Wind Ensemble, Jazz Band, and Marching Band
University of Tulsa and University of Auckland Ultimate Frisbee Teams
University of Auckland Whitewater Kayaking Club