

Jack Wolfard

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EDUCATION

Georgia Institute of Technology <i>Master of Science in Computer Science</i>	GPA: 4.0/4.0	Atlanta, GA <i>Jan. 2021 – May 2022</i>
Georgia Institute of Technology <i>Bachelor of Science in Computer Science</i>	GPA: 3.97/4.0	Atlanta, GA <i>Aug. 2017 – Dec. 2020</i>

EXPERIENCE

Southwest Research Institute <i>Student Analyst</i>	San Antonio, TX <i>May 2020 – Jul. 2020</i>
<ul style="list-style-type: none">Implemented remote mission planning for a ground vehicle using gRPC and QGroundControlDesigned a decoupled Python library for integrating hardware components with program logicIterated on design using SITL simulation and ground testingCreated a mountable 2-axis gimbal controllable via UARTPresented PDR proposal and final report to division leadership	
NCR <i>Software Engineering Intern</i>	Atlanta, GA <i>May 2019 – Aug. 2019</i>
<ul style="list-style-type: none">Decreased turnaround time from a few business days to seconds for vital customer informationDeveloped a full stack Angular web application and integrated with 10 year old .NET solutionPresented final product to executive leadership receiving an honorable mention at intern expo	
Georgia Institute of Technology <i>Teaching Assistant</i>	Atlanta, GA <i>Jan. 2018 – May 2019; Aug. 2020 – Present</i>
<ul style="list-style-type: none">Head TA for Design of Operating Systems, previously taught Introduction to Computer ScienceAssisted students in office hours, developed course material, and delegated tasks among TAs	

RESEARCH

Zero Knowledge Processor	<i>Oct. 2020 – Present</i>
<ul style="list-style-type: none">A toolchain and virtual machine which can run ANSI C95 programs in Zero KnowledgeBuilt custom LLVM object writer in order to enable linker in toolchainDesigning architecture to distribute ZK workload across parallel ZK machines using gRPC and CloudLab	
Optimizing Eidetic Systems	<i>Oct. 2019 – May 2020</i>
<ul style="list-style-type: none">Worked on a modified Linux kernel which implemented deterministic record and replayBuilt system call shims to track generated replay output in order to detect divergence from recording in CCreated Python development tools which parsed recording logs for analysis	

LEADERSHIP & SERVICE

Assistant Chief Engineer at WREK Radio	<i>Apr. 2019 – Present</i>
<ul style="list-style-type: none">Introduced Kanban project management to more effectively utilize student engineersCoordinated with professional staff, contractors, and students for a full station moveDeveloping pathway program for training new engineers to maintain station	
President of Navigators at Georgia Tech	<i>May 2019 – Apr. 2020</i>
<ul style="list-style-type: none">Planned campus wide events attended by hundreds in collaboration with other campus organizationsAdapted voting system to remote option for electing new leaders during pandemic	
Resident Assistant	<i>Aug. 2019 – Mar. 2020</i>
<ul style="list-style-type: none">Facilitated the development of community between 350 residentsPromoted diversity, inclusion, health, and well-being through programming and passive initiatives	

TECHNICAL SKILLS

Languages: C, Python, C#, C++, Java, JavaScript, x86, Verilog
Topics: Linux, Operating Systems, Computer Architecture, Computer Vision, Cryptography, Networking
Libraries & Frameworks: NumPy, Matplotlib, gRPC, LLVM, Angular, Node.js, .NET
Tools: Git, Vagrant, Docker, Google Cloud Platform, Jupyter, Anaconda