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Clemson, SC  
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# Brandon Wingard

Software Engineer

GitHub: AegisSSC  
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Experienced Data Scientist and Software Developer with a demonstrated history of working in the Machine Learning Research and Deployment into a variety of industries. Skilled in Python, C/C++, and R with experience working in Agile and Waterfall based development teams. Strong research professional with a Bachelor of Science - BS focused in Computer Science from Clemson University and a Minor in Engineering.

## SKILLS

<b>Tools and Languages</b>	Python, C/C++, Rust, CUDA, R, Git, $\text{\LaTeX}$ , JavaScript, AWS Cloud
<b>Quantitative Research</b>	Mathematical optimization, Regression Modeling, Classification Modeling, MySQL, Hadoop
<b>Libraries and Services</b>	Catkin, Solidworks, Cisco VoIP, Microsoft Azure Tools, Microsoft DevOps, Scikit, Pandas, NumPy, OpenCL, OpenGL, Quandl, BS4, Docker, D3, React, Actix-web, Tokio, ODBC-api,
<b>Developer Environments</b>	Windows 7/8/10, Ubuntu 16.04/18.02/20.04/(WSL), Palmetto Cluster (PBS), MacOS 10.12
<b>Communication</b>	English (native)

## TECHNICAL EXPERIENCE

<b>Software Engineer</b> <i>FastFetch LLC</i>	<b>May 2022 — Present</b> <i>Seneca, SC</i>
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- Spearheaded multi-level platform adoption for internal communication.
- Managed several active projects to see an increase in 320% productivity.
- Worked with clients to redesign supply chain systems to optimize ergonomics and workflows.
- Redesigned low level firmware to be compatible with newer hardware requirements.
- Developed new testing methodologies for troubleshooting problem hardware and software.
- Expanded on current statistics reporting software to provide insight into the daily performance of client customers.

<b>Student Consulting Lead</b> <i>Clemson CCIT</i>	<b>January 2022 — May 2022</b> <i>Clemson, SC</i>
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- Train incoming Student Software Consultants
- Handle Administrative Security Requests from other Consultants.
- Manage and optimize training and general workflow systems and processes used by CCIT Consultants.
- All previous requirements listed as a Student Software Consultant

<b>Undergraduate Research and Software Developer</b> <i>Clemson University Department of Electrical Engineering</i>	<b>February 2022 — Present</b> <i>Clemson, SC</i>
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- Evaluate current image compression techniques for maximal loss-less compression.
- Optimize possible loss-y compression algorithms to maintain application use accuracy.
- Collaborate with client team to produce usable results.

<b>Student Software Consultant</b> <i>Clemson CCIT</i>	<b>March 2021 — Jan 2022</b> <i>Clemson, SC</i>
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- Provide technical software consulting expertise to Clemson University
- Provide software repair and troubleshooting in person.
- Give software troubleshooting remotely.

<b>Undergraduate Research Assistant - M.A.V Openpose Developer</b> <i>Clemson University Department of Mechanical Engineering</i>	<b>January 2020 — January 2021</b> <i>Clemson, SC</i>
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- Developed and trained Pose Estimation and Object Avoidance Algorithms for use on low-power Micro Aerial Vehicles.
- Developed Containerized Machine Learning solution for use in MAVROS ecosystem
- Presented as apart of a fully autonomous delivery solution for Last Mile Logistics during COVID-19 Pandemic

## EDUCATION

<b>Bachelors of Science in Computer Science, Clemson University</b>	May 2022
<i>Minor in Engineering</i>	May 2022
<b>High School Diploma, White Knoll High School</b>	May 2018

## ACTIVITIES

IEEE Student Member	Spring 2022 - Present
Clemson Association of Computing Machinery, Chapter Member	Fall 2019 - Present
Clemson School of Computing Associate	Summer 2019 - Present
CUHackIT, Clemson University	Spring 2021
M.A.V Creative Inquiry COVID Showcase, Clemson University, Research Presenter	Summer 2020
South Carolina Governor's School for Science and Math, Student	Fall 2016-Spring 2018