

Charles Jenkins

Software Developer

🎓 Education

Bachelors in Computer Science, Georgia Institute of Technology, Atlanta, GA

August 2019 - May 2023

GPA: 3.92 / 4.00

Concentrations: Systems & Architecture, Artificial Intelligence

👤 Research

Habanero Extreme Scale Software Research Lab, Georgia Tech

August 2021 - Present

- Actively work on compilers to improve the speed and efficiency of programs by taking advantage of parallelization and large scale computing systems
- Pioneering new techniques with a team of research scientists
- Currently developing compiler supported libraries to enhance Python programs by transpiling Python into C++

LIDAR Lab Computer Vision Research, Georgia Tech

January 2021 - May 2021

- Worked on developing a semantic segmentation machine learning model for real-time walking robotics alongside both graduate and undergraduate students

🏢 Employment History

Full Stack Development Intern, Qualtrics

May 2022 - August 2022

- Worked on numerous tasks and long projects to improve the user experience of viewing results of Qualtrics surveys
- Rearchitected production legacy backend server and frontend Typescript code
- Implemented production features requested by over 10 Fortune 500 companies

Embedded Software Development Intern, Rockwell Automation

May 2021 - August 2021

- Worked alongside the other Scrum members of the CI team to create new Jenkins pipelines and improve developer testing experience
- Improved performance of CI analytics website by 98% by leveraging Postgres SQL
- Utilized python machine learning tools to generate a plot for a unit test and detect anomalies

Objects and Design Teaching Assistant, CS 2340 Georgia Tech

January 2021 - May 2021

- Redesigned teaching website in Jekyll and created examples for UML diagrams
- Held office hours and supported students throughout semester

Returning Android Development Intern at Dexcom, San Diego, CA

May 2019 - August 2019 and June 2020 - August 2020

- Led mobile apps intern team for both Android and iOS
- Designed architecture using UML
- Created a library that communicated with a Dexcom server to improve the user experience

📁 Projects

Crypto Meal: <https://github.com/thecharlesjenkins/CryptoMeal>

- Developed a Flutter application to allow students to trade meal swipes at a college campus with other students
- Was completed during a hackathon

🏆 Extracurricular

RoboJackets RoboRacing, Georgia Tech

September 2020 - May 2022

- Using ROS and C++, I wrote code for our 2021 2nd place winning competitive autonomous robot.
- Worked on include a perception stack to detect other robots and walls, as well as GPS localization.
- Was a training lead to help new members ramp up to be productive in the club

Details

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Links

thecharlesjenkins.com

linkedin.com/in/charles-jenkins

github.com/thecharlesjenkins

Skills

C/C++: Extensive Club and Class Experience

Python: Extensive Experience

Typescript: User-facing production code at Qualtrics

Flask/SQL: Developed analytics website at Rockwell Automation

Jenkins/Groovy: Developed pipelines for Rockwell Automation

Java/Kotlin: Programmed commercial Android apps

ROS: Programmed with RoboJackets

Flutter and Dart Application Framework

ReactJS: Created my website