

# Camdyn Zook

309-660-8065 • Tampa, FL • [camdynzook@gmail.com](mailto:camdynzook@gmail.com) • [LinkedIn](#) • [Github](#) • [Portfolio](#)

## EXPERIENCE

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### Software Engineer

February 2023 - Present

Collins Aerospace | St. Petersburg, FL

- Led the development of an automated Python test suite, resulting in an estimated 500% increase in testing code coverage using BDD, Behave, Squish, and Python.
- Achieved a 50% reduction of memory in the network request handling codebase using scalable algorithms and parallel programming in C++
- Integrated parallel builds in Jenkins to reduce build times by 80%
- Refactored legacy C to C++ for a product serving over 10,000 customers.

### Software Engineer Contractor

May 2022 - January 2023

Caterpillar | Peoria, IL

- Led development and design of a Jenkins Pipeline fully integrated with BitBucket.
- Wrote Google Tests and Automated PCB regression test stages using Python.
- Compiled 30+ build scripts from multiple departments into one Bash script and rewrote makefiles, reducing build times by over 90%
- developed a solution for remote testing from Jenkins Pipeline, using RaspberryPi and C/C++, to communicate with the Network Control Unit of Embedded Systems

## EDUCATION

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Iowa State University | Bachelor of Science in Software Engineering | GPA: 3.5/4.0

August 2019 - December 2022

- *President*, Sigma Tau Gamma Fraternity
- *General Member*, Hackathon Club
- *Public Outreach Chair*, Game Dev Club

University of Illinois Urbana-Champaign | Master of Computer Science

January 2024 - Est. July 2025

- *In-progress part-time*, Focus on Machine Learning and Big Data
- Currently taking CS 441: Applied Machine Learning and CS 498: Cloud Computing Applications

## SKILLS

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**Languages:** C/C++, Python, Rust, SQL, HTML/CSS, Bash, Javascript/Typescript

**Frameworks/Libraries:** FastAPI, React.js, Node.js, Scikit-learn, Tensorflow, Pandas, Numpy,

**Technologies:** AWS, Linux (Red Hat+Arch), Git, MongoDB, MySQL, Jenkins, Docker, Voiceflow

**Clearance/Certifications:** DoD Top Secret Clearance, AWS Cloud Practitioner, CATU AI

Certification

## PROJECTS

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[Blog](#) | *Python, OpenAI API, PostgreSQL, AWS EC2, AWS RDS*

December 2022 - January 2024

- Developed a blog post automation Python CLI tool that allows blog owners to focus their time on keyword research, and the blog writer will write multiple SEO-optimized articles from your research.
- Utilized GPT-3.5-Turbo model from the OpenAI API and LangChain Python library to combine multiple Large Language Models to produce better results and save in token costs.

[WhatsApp Chatbot](#) | *Python, Flask, OpenAI API, Twilio API, AWS EC2*

October 2023 - November 2023

- Interact with the chatbot on WhatsApp right now using the WhatsApp number +1 (844) 746-9113.
- Built with a Flask backend that interacts with the Twilio and OpenAI APIs and is hosted on an AWS EC2 instance.