

# Kevin Carman

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carmank.github.io/Website

## Education

**Georgia Institute of Technology**, Atlanta, GA 2023  
Master of Science: **Computer Science** with a Computing Systems specialization

**Elizabethtown College**, Elizabethtown, PA 3.900 GPA • 2020  
Bachelors of Science: **Computer Engineering** and **Computer Science**

## Relevant Coursework

*Engineering:* Senior Project in Engineering ▪ Advanced Computer Engineering ▪ Computer Architecture ▪ Electronics  
Digital Design and Interfacing ▪ Circuit Analysis ▪ Signals and Systems ▪ Control Systems

*Computing:* Systems Programming ▪ Compiler Design ▪ Database Systems ▪ Data Structures ▪ Software Engineering  
Computer Networking ▪ Algorithms ▪ Operating Systems

*Mathematics:* Differential Equations ▪ Calculus ▪ Linear Algebra ▪ Mathematical Proofs

**Honors & Activities:** Founders Scholar ▪ Emergent Scholar ▪ Dean's List ▪ Faculty Student Award in Engineering &  
Physics ▪ Hager Scholar in Engineering and Physics ▪ Vice President of the Computer Science Club  
ACM ICPC Competition ▪ Dickinson Programming Competition ▪ Honors in the Discipline  
Summa Cum Laude

## Technical Skills

**Languages:** JavaScript ▪ TypeScript ▪ SQL ▪ Python ▪ Java ▪ C++ ▪ C ▪ MATLAB ▪ Assembly  
**Software:** Kubernetes ▪ Helm ▪ Docker ▪ Git ▪ LitElement ▪ Linux ▪ LaTeX ▪ Logisim ▪ MS Office

## Experience

**Associate Software Engineer** ▪ Lockheed Martin June 2020 - Present

- Full-stack, agile, microservice development on the BEAST (BMC2) project - **Top Secret clearance**
- Managed the containerized microservice architecture using Docker, Kubernetes, and Helm
- Developed, tested, and integrated PostgreSQL databases, Javascript/Java backend, RESTful APIs, and web component based frontend

**Undergraduate Research** ▪ Rutgers University May 2019 - August 2019

- Algorithmically developed 'Graph Stories' by summarizing corpora generated from massive graphs.
- NSF funded individual research applied to graph sense-making projects currently in development.
- User interface design and testing for ATLAS and Graph Wave projects.

**Engineering TA** ▪ Elizabethtown College Jan 2018 - May 2020

- Computer Engineering/Science lab assistant and tutor.
- Assess student code, circuits, designs, models, and other work in Computer Engineering/Science courses.

## Projects

**Cosmic** Elizabethtown College

- Fully emulated, lightweight, and cross-platform 8-bit computer architecture designed in C++ with a RISC-like instruction set derived from Zilog Z80 and MOS 6502 microprocessors. Rich GUI developed with ImGui for debugging/testing. Assembler written in Python. Automated CI/CD. Open source

**DiddyBot** Personal Project

- Discord bot written in JavaScript, running on node.js. MySQL database and several RESTful APIs integrated. Support for over 50 unique commands varying in complexity. Logarithmic user leveling system. Running in 3 servers with over 200 users. Served as a fun project to learn a new language.