Kevin Carman

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Education

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

Elizabethtown College **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 ▪ Cyber physical systems security
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 ▪ Jasmine ▪ Puppeteer ▪ Linux ▪ LaTeX ▪ MS Office

Experience

Software Engineer ▪ Scrum master ▪ Lockheed Martin June 2020 - Present
- Full-stack, agile, microservice development on the BEAST (BMC2) program - **Top Secret DoD clearance**
- Manage the containerized microservice architecture using Docker, Kubernetes, and Helm
- Developed and integrated PostgreSQL databases, Javascript/Java backend, RESTful APIs
- Javascript, component based frontend written in LitElement
- Maintained FIT and E2E testing suites using Cucumber, Jasmine, and Puppeteer

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
- Utility server employing Commando framework and Discord API, running on node.js. MySQL statefulness. RESTful API integration. Over 50 unique commands from reminders and calculations to a logarithmic user interactions based leveling system and economy. Serving over 250 users. Labor of love