Kevin Carman

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carmank.github.io/Website

Education

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 ▪ SQL ▪ Python ▪ Java ▪ C++ ▪ C ▪ MATLAB ▪ Assembly
Software: Kubernetes ▪ Helm ▪ Docker ▪ Git ▪ LitElement ▪ Linux ▪ LaTeX ▪ Logisim ▪ MS Office ▪ AutoCAD ▪ Inventor
Hardware: PLC ▪ FPGA ▪ Arduino ▪ Raspberry Pi

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

Otis Neural Network   Elizabethtown College
  ■ Neural network capable of autonomously scaling, learning, and making assumptions from user defined data. Agile
    development. Dual web panel and shell UIs. Automated CI/CD.

DiddyBot   Personal Project
  ■ Discord bot written in JavaScript, running on node.js. MySQL database and several RESTful APIs integrated.
    Support for 50 unique commands varying in complexity. Logarithmic user leveling system. Running in 3 servers.
    Over 150 users. Served as a fun project to learn a new language.