# Kevin M. Garner

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I am a software engineer with experience in both software and hardware integration and testing. I am currently pursuing my MS in computer science part-time, online at Georgia Tech, where I am focusing on low-level computing systems. I have strong knowledge in C and C++, and have also used Rust and Python previously.

## **SKILLS**

Tools and Languages C, C++, Rust, Python, Linux, Git, ŁTĘX

**Knowledge Areas** Operating systems, Embedded systems, Cryptography, Avionics

## **TECHNICAL EXPERIENCE**

Software Engineer Aug 2022 — Present

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Houston, TX

• Member of the Metadata team, writing software in C++ for hyperscale database systems.

# **Senior On-orbit Operations Engineer**

Apr 2021 — Aug 2022

Houston, TX

- Lead planning and execution of spaceflight payload operations
- Developed and executed test plans for software and hardware integration
- · Planned new operations for Nanoracks Outpost program, utilizing spent upper-stage rockets for payload operations

# **Avionic Subsystem Manager**

Mar 2020 — Apr 2021

MRI Technologies

Nanoracks, LLC

Houston, TX

- Lead team in embedded system software updates, including requirements development, verification testing, and code reviews for bare-metal C code
- Planned and executed troubleshooting and failure resolution of spaceflight avionic hardware and software

Operations Engineer

Jun 2012 — Mar 2020

Houston TV

Cimarron, Inc

Houston, TX

- Lead multi-departmental team in creation of International Space Station flight software scripts, following NASA flight software development process for scripts that included fault detection algorithms and automated procedures
- Certified as an International Space Station flight controller, worked in NASA mission control. Monitored and operated International Space Station (ISS) avionics, communication, command, and data handling systems.

## **EDUCATION**

M.S. Computer Science, Georgia Institute of Technology

B.S. Electrical Engineering, Louisiana State University

exp. May 2024

May 2011

## **PROJECTS**

MapReduce in C++ with gRPC

Length extension attack on SHA-1 in Python

Simple, multi-threaded distributed file system in C++ with gRPC

Shamir's Secret Sharing scheme in Rust

# **AWARDS**

Integrated Mission Operations Contract Excellence Award	2019
NASA Flight Operations Directorate (FOD) Director's Award	2015
NASA Spaceflight Awareness Team Award	2014