# Kevin M. Garner

League City, TX kevin.m.garner@gmail.com

# Software Developer

github.com/KevDev13 linkedin.com/in/kevinmgarner

I am an experienced software and spaceflight operations engineer with over 10 years experience. I am currently pursuing my MS in computer science part-time, online at Georgia Tech, where I am focusing on low-level computing systems and computer security. 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, LTEX

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

#### **TECHNICAL EXPERIENCE**

## **Senior On-orbit Operations Engineer**

Apr 2002 — Present

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 avonic hardware and software

Operations EngineerJun 2012 — Mar 2020Cimarron, IncHouston, 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. Dec 2023

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