

# Corey Koehler

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## Work Experience

### KBR (formerly LinQuest): Senior Software Engineer

August 2023 — Present

*Albuquerque, NM*

- Led a team of 3 developers in 8-month C++ plugin development, making technical design decisions and delegating tasks to deliver higher-fidelity GPS modeling tools to a government customer, enabling defense research of state-of-the-art GPS receivers
- Optimized simulation architecture to achieve 100+ GPS location computations per second, a 6x improvement over baseline AFSIM (aerospace simulation software), enabling real-time processing for large-scale government simulations
- Increased data transfer rates 10x and message routing coverage 150% in satellite communication simulation by creating testing tools to identify failure points and implement high-frequency, multi-path communication
- Implemented 40+ API commands that exceeded customer requirements for plugin configuration, resulting in an open-source community release and adoption by 4 government research teams
- Developed C++ and Python data processing pipelines to visualize 100 million GPS data point metrics across multiple simulation projects
- Redesigned government customer's SysML-to-simulation development workflow, reducing development errors and cutting project timelines by 3 weeks (50% faster delivery)

### NASA Jet Propulsion Laboratory (JPL): Software Developer Intern

June 2020 — August 2020

*Pasadena, CA*

- Developed full-stack laboratory management system using Python (Flask, SQLite3, and Bootstrap) to streamline equipment scheduling and logistics coordination in 20+ research laboratories
- Built real-time monitoring dashboard with 100+ live-updating Matplotlib visualizations, displaying insights from user-collected data and enabling proactive lab environment management

### Acqubit 3D-SensIR Inc: Software Developer Intern

June 2019 — August 2019

*Santa Clarita, CA*

- Engineered C++ visualization and object detection pipeline using PCL and ROS for proprietary LIDAR camera system, enabling real-time 3D point cloud processing and analysis
- Integrated computer vision algorithms with the Trinity Robotics automated pallet system to eliminate the need for manual technician calibration, achieving 95% keypoint detection accuracy during setup routines

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## Education

### University of California, Berkeley

August 2019 — August 2023

B.A. Computer Science, B.A. Applied Mathematics

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## Relevant Technical Skills

Languages

C++, Python, C, SQL, JavaScript

Libraries:

Matplotlib, Pandas, GoogleTest, Node.js

Tools:

Visual Studio, CMake, Jira, Git

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## Clearance

TS/SCI

(Top Secret/Sensitive Compartmented Information)