

Carl Omondi

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🌐 /thecarlko

Education

University of Texas at Austin — B.Sc Computer Science

May 2028

Experience

Longhorn Rocketry Association — Software Systems Engineer

Aug 2024 - Present

[Firebase](#) [Docker](#) [PostgreSQL](#) [SvelteKit Framework](#) [GPS](#) [Node.js](#)

- ◆ Enhanced real-time flight mission monitoring by designing cloud-based telemetry dashboard
- ◆ Automated firmware updates with Docker containers, reducing rocket prep time by 35%
- ◆ Implemented GPS-based flight path projections, improving mid-flight diagnostics
- ◆ Improved data analysis speeds by 30% by through PostgreSQL row query analysis

Google — Software Engineering Apprenticeship

Jun 2023 - Jul 2024

[Typescript](#) [Node.js](#) [Firebase](#) [Google Cloud](#) [P5.js](#) [OAuth](#)

- ◆ Improved frontend load performance by 25% by utilizing lazy loading techniques in web applications
- ◆ Collaborated with engineers to optimize database queries, reducing data retrieval latency
- ◆ Developed load testing scripts to simulate traffic spikes on cloud apps, improving resilience by 40%
- ◆ Created simple digital art project letting fellow program alumni write recommendations for others

Americans United — Web Engineering Internship

Jan 2024 - Jun 2024

[Puppeteer](#) [Typescript](#) [Google Workspace](#) [Cloudflare](#) [SEO](#) [Node.js](#)

- ◆ Developed proprietary data mining algorithm recursively mapping > 1,000 AU pages for SEO goals
- ◆ Translated mapped data into visuals used to inform and impact \$120,000 marketing project
- ◆ Configured settings on Google Workspace for increased interoperability with company SEO toolkit
- ◆ Streamlined content delivery & retrieval systems boosting web page load speeds 150%

Skills

[PostgreSQL](#) [Firebase](#) [TypeScript\(JS\)](#) [Docker](#) [SvelteKit](#) [React](#) [Google Cloud](#)

[REST API](#) [Data Mining](#) [Web Scraping](#) [Figma](#) [UX/UI Design](#)

Awards & Achievements

U.S. National Champion: Web Design & Development — SkillsUSA

July 2023

All North-American Generation Google Scholar — Google

June 2024