

# Justin Elli

Software Engineer I  
Trimark Associates, Inc

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sprighal-r.github.io

**Languages** \_\_\_\_\_ C/C++ + C# + Java + JS/jQuery + TypeScript + Python + HTML/CSS + SQL/NoSQL  
**Frameworks** \_\_\_\_\_ Angular + Blazor + React Native + Asp.NET + NodeJS

## Education and Certificates

**Master of Computer Science** Georgia Tech OMSCS \_\_\_\_\_ May 2025

— Specialized in Computing Systems, which included extensive training in developing high-performance code and computer architecture as well as fault-tolerant distributed systems.

**Certificate in Space Studies** International Space University \_\_\_\_\_ Aug 2025

— Participated in the international, intercultural, and interdisciplinary Space Studies Program in South Korea.  
— Learned about all aspects of space; participated in space-related projects such as a model rocket launch.

**Bachelor of Computer Science** Sacramento State University \_\_\_\_\_ Dec 2020

**Associate Degree in Math and Science** Folsom Lake College \_\_\_\_\_ May 2018

## Experience

**Software Engineer I** Trimark Associates, Inc \_\_\_\_\_ Jan 2022 – Present

— Refactored multiple flagship web applications to align with best practices and lower latency by 2x or more.  
— Maintained front-end and back-end components of a web application to align with customer expectations.

**Software Developer** Tata Consultancy Services \_\_\_\_\_ May 2021 – Dec 2021

— Lead a Scrum group in creating a bank employee portal using Java, JSP, and Oracle 11 (SQL).  
— Created a shopping portal using Angular and NodeJS with a team of four other employees.

**Software Development Consultant** Mexico Bariatric Center \_\_\_\_\_ Aug 2012 – Aug 2017

— Wrote a script for Adobe Photoshop that pastes “before” and “after” images onto an image template.  
— Developed multiple website modules in HTML, CSS, and JavaScript, including a BMI calculator.

## Projects and Research [github.com/sprighal-r](https://github.com/sprighal-r)

**KNOWledge-Based Agent (Knoba)** C++ + Artificial Intelligence

— Produced research and a C++ implementation of a knowledge-based agent in 1 year.  
— Presented the project at the Student Research & Creative Activity Symposium at Sacramento State.

**Gateway Simulator** Python + Simulation + Research

— Simulated the energy generation and usage for NASA’s Lunar Gateway over the course of a 90-day mission.  
— Analyzed simulation results to recommend an energy generation target for the Gateway’s solar panels.

**Applying AI to Space Exploration** International Collaboration + Research

— Worked as part of an international 42-person group developing research on the use of AI in space exploration.  
— Took the lead on designing a sensor system to generate diagnostics of astronauts on EVAs.