

# Stella Astbury

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[Linkedin](#) | [Github](#) | [Website](#) | [Portfolio](#)

## ***Professional Summary:***

Inspired by the Misogi method, tackling ambitious challenges—from marathons to amateur boxing—to build resilience and discipline. Applying the same drive and creativity to entrepreneurial and technical projects, including self-publishing, modeling, and website design, delivering results through focused problem-solving and initiative.

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## ***Education:***

### **University of California, San Diego**

Graduated 2025

Bachelor of Science in Mathematics and Computer Science — GPA: 3.236

- Study Abroad: Sea Turtles and Tropical Ecology, Guanacaste, Costa Rica

### **Harvard Extension School, Cambridge**

Dual Enrollment, 2022

- Principles of Legal Writing: 2020, Food and Nutrition in Health and Wellbeing: 2021, Philosophical Foundations of Economic Justice: 2022
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## ***Skills:***

**Languages:** Java · Javascript · C++ · Python · Arduino

**Software & Frameworks:** AWS (Lambda, DynamoDB, CloudWatch) · microCT processing · 3D segmentation · Streamlit · XCode · Alpha Vantage API · Markdown (MD) · GitHub · [Next.js](#) · React · Wix · yFinance · Jupyter · Shell Scripting

**Algorithms & Development:** Data Structures · Algorithm Optimization · Object-oriented Design · Cloud Computing · API Development

**Professional:** Public Speaking · Technical Communication · Persuasive Writing · Modeling

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## ***Projects:***

### **Alexa Skill for Amazon Audible - *Software Engineer Intern, Amazon***

- Designed voice-activated Alexa skill integrating the Goodreads API using AWS Lambda, DynamoDB, and CloudWatch resulting in automated booklist creation, improving user interactions through hands free browsing.

### **Stock Portfolio Analyzer - *Personal Project***

- Built a Python dashboard implementing Sharpe ratio, beta, and moving averages, resulting in clearer visualization of portfolio risk and real-time performance insights for quick decision-making.

### **Fitness & Nutrition Tracker App (In Progress) - *iOS App Development***

- Developing a full-stack iOS app to log workouts, nutrition, and progress analytics, aimed at centralizing training data for progressive overload for hypertrophy.
- Integrating Apple HealthKit for real-time biometrics, which will enable automatic syncing and more accurate performance metrics.

### **Mapping Reduction of Halting Problem - *Computability Research (C++)***

- Implemented a computable reduction from the Halting Problem to EQ\_TM, demonstrating equivalence through constructive proofs and strengthening understanding of undecidability.

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### *Experience:*

<b>F<sup>2</sup> Lab, UC San Diego</b>	2025
Research Assistant – Image Processing	La Jolla, CA
<ul style="list-style-type: none"> <li>- Optimized Python pipelines for microCT image processing across Exercise and Bone Fatigue projects, increasing processing efficiency and enabling faster extraction of higher-resolution quantitative outputs for research collaborators.</li> <li>- Collaborated with researchers to translate imaging needs into computational tools, streamlining data workflows and supporting publication-ready results.</li> </ul>	
<b>LGNDRY Group</b>	2025
Marketing & Promoting	San Diego, CA
<ul style="list-style-type: none"> <li>- Coordinated with various venues to curate nightlife experiences, resulting in increased event attendance.</li> </ul>	
<b>Coastal Collective &amp; Lead Wolf</b>	2024
Marketing & Content Intern / Brand Model	San Diego, CA
<ul style="list-style-type: none"> <li>- Collaborated with creative and business teams to design outreach strategies, leading to more cohesive branding and targeted audience growth.</li> </ul>	
<b>Trilogy Sanctuary</b>	2023
Event Manager, Front of House	La Jolla, CA
<ul style="list-style-type: none"> <li>- Coordinated Full Moon, Meditation, and Dance events, resulting in 200+ tickets sold.</li> </ul>	
<b>Surf Diva</b>	2023
Surf Instructor	La Jolla, CA
<ul style="list-style-type: none"> <li>- Assessed ocean conditions and public safety factors to guide surf lessons, ensuring client safety while improving beginner surf technique and confidence.</li> </ul>	
<b>Massachusetts Institute of Technology</b>	2021-2023
Lifeguard & Swim Instructor	Cambridge, MA
<ul style="list-style-type: none"> <li>- Developed personalized lesson plans, resulting in measurable skill improvement in youth and adult swimmers.</li> </ul>	
<b>Amazon Audible</b>	2021-2022
Paid Intern	Cambridge, MA
<ul style="list-style-type: none"> <li>- Collaborated in a multi-developer GitHub workflow, reducing integration errors and improving deployment consistency.</li> </ul>	

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### Volunteer & Community Service:

Harvard Square Homeless Shelter (Cambridge, MA)  
 Mass Audubon Wildlife Sanctuary (Lincoln & Wellfleet, MA)  
 Triton Boxing Club - co-founder