


Biya Brook

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Education

Stanford University - Stanford, CA

June 2027

B.S. in Computer Science w/ AI Concentration & B.A. in Linguistics

Relevant Coursework: CS 106B - Data Structures & Algorithms, CS 109 - Probability for Computer Scientists,

Math 51 - Linear Algebra, Multivariable Calculus & Applications, CS 106AX - Accelerated Programming

Methodologies in JavaScript and Python

Boston Latin School - Boston, MA | 4.41 GPA

June 2024

Relevant Coursework: AP Calculus BC, AP Chemistry, AP Chinese, AP Latin, Physics, Ancient Greek

Professional Experience

Research Assistant | Boston Children's Hospital

June 2023 - August 2024

Department of Orthopedic Surgery and Sports Medicine - Boston, MA

- Trained and validated a 3D U-Net CNN ML model to segment bones from MRI & CT scans, improving model success rate from **10% to 85%**
- Created 3D knee models of ACL injuries using automatically segmented MRI data
- Performed statistical analysis of pre-operational & post-operational clinical notes
- Served as the Commencement Speaker for the 2023 internship cohort

Math & SAT Tutor | Transform Tutoring

November 2024 - Present

Stanford, CA

- Provide individualized 1 on 1 tutoring to Bay Area high school students over zoom and in person
- Create curricula tailored to each student's academic needs and focus areas

Projects

Co-Founder | Solana Rivals

February 2025 - Present

- Built the first gamified AI crypto trading platform with personalized, autonomous competing agents
- Engineered a Express server wrapped in docker to execute each agent's trades on the Solana blockchain
- Implemented the frontend using Next.js along with Tailwind & Shadcn UI for styling

Founder & CEO | ScholaLatinae 501(c)(3)

April 2023 - Present

- Developed a Next.js website that helps **over 3,000 students** learn Latin & Greek for free
- Edit video lessons and release them on YouTube; Design social media marketing posts using Photoshop
- Programmed an algorithm for recommending practice questions based on past success, over **10k qs answered**

InboxRecap

August 2024 - Present

- Run an inbox management software that sends daily summary emails of one's inbox & helps bulk unsubscribe
- Developed using Next.js, CSS, & Joy UI library, interacts with GPT-4 API, Gmail API, & Resend API

Skills

Technical: Python, C++, & Javascript; Full stack web development (Next.js, React.js, Flask, Tailwind CSS)

Language: Bilingual in English and Amharic; Studied Mandarin Chinese, Latin, Ancient Greek, and Ge'ez

Design/Computer: Adobe Photoshop, Premiere Pro; Advanced in Google Suite & Microsoft Suite

Extracurricular Activities

- SSO (Stanford Symphony Orchestra), *Percussion/Timpani* (2024 - Now)
- Stanford Students in Biodesign & Biopharma, *Digital Health* (2024 - Now)
- Stanford Daily, *Sports & Crossword* (2024 - Now)

Honors & Awards

- **11x** National Certamen Winner, **3x MVP**
- Harvard Certamen, **1st Place & MVP**, (2021)
- 22-23 Community Service Award (**250+ vol. hrs**)
- MA Seal of Biliteracy in *Amharic & Latin*
- National Latin Exam, **Perfect Score** ('19, '21, '24)