Stephen Golzari

Bioengineering: Bioinformatics

Undergraduate Student

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Summary

I possess hands-on experience in dynamic web application development using React (JavaScript) and Django (Python), with a strong command of data structures and algorithms. I excel in API integration and have expertise in C++, Java, JavaScript, and Python. My creative problem-solving skills are enriched by my passions for chess and music composition outside of work.

Education

University of California, San Diego — San Diego, California
Bioengineering: Bioinformatics, **GPA 3.734** — Sep. 2021 – June 2025

Moscow Chemistry Team — Moscow, Russia
A society of National Olympiad prize winners in Moscow — Sep. 2020 – May 2021

Experience

REU Web Visualization Developer - CAIDA — San Diego, California
– Designing and constructing a comprehensive visualization of global Autonomous Systems utilized for the Internet by writing algorithms, using appropriate data structures (e.g. quad tree), and employing object-oriented design. — Nov. 2022 – **Present**
– Developing web-based solutions using a technology stack, including JavaScript, CSS, Python, HTML, utilizing Git for version control.
– Utilizing debugging methods, such as profiling, and implementing test cases to refine algorithm performance.
– Employing the d3 library to transform data into visualizations and facilitate data extraction for analysis.
Skills: building frontend from data, d3, JavaScript, HTML, CSS, GitHub, presentation, debugging.

Researcher at NEAR Foundation — Remote
– Analyzed user data on the blockchain utilizing Python, PostgreSQL, yielding valuable insights into user behavior. — April 2022 – July 2022
– Conducted interviews with prominent leaders in Education, DAO, DeFi to gain comprehensive and informed perspectives on the latest trends and developments.
– Wrote a report on the social dynamics of blockchain technology, with a keen focus on DAOs and Guilds, exploring their impact on community growth and adoption.
Skills: research, writing, working with data using Python and PostgreSQL, teamwork.

Researcher at Blockchain at San Diego — San Diego, California
– Conducted research on scalability issues in Ethereum and wrote an article on behalf of the club. — Jan. 2022 – June 2022
– Explored the latest Layer 2 solutions available on the Ethereum network, including Optimistic and ZK rollups, analyzed their respective strengths and weaknesses, and projected their potential future impact on the field.
Skills: in-depth understanding of blockchain technology, teamwork, research skills, communication, writing.

Projects

illuma – Statistics for Spotify — August – September 2022
– Designed and developed a dynamic full-stack website using the Spotify API to provide users with detailed song statistics, personalized playlists, top charts, plots based on song data.
– Employed with array of technologies including React, JavaScript, Tailwind, Babel, Webpack, fro frontend; Django, Python, and RESTful API for backend.
– Integrated data visualization tools, such as ApexCharts and Material UI, to build charts and integrate industry-standard design.
– Deployed the website using Heroku platform and GitHub.
Skills: React, Django, JavaScript, HTML, CSS, Tailwind, GitHub, Data Structures and Algorithms.

Spotify Web Player — July 2022
– Dynamic full-stack website built with Spotify API provides users with access to music playback streaming
– Implemented with React, Javascript, for frontend and Django, Python, RESTful API for backend.
– Worked with Babel and Webpack, Material UI
– Deployed the website using Heroku platform and GitHub.
Skills: React, Django, JavaScript, HTML, CSS, GitHub.

Image Editor Web Application — March 2022
– A website that allows users to download/upload and manipulate an image.
– Takes input from users and shows changes real-time by applying filters from Canvas API.
Skills: JavaScript, HTML, CSS, GitHub.

Courses

CSE 30: Computer Organization and Systems Programming — San Diego, California
– Introduction to organization of modern digital computers — March 2022 - June 2022
– Systems programming in C and ARMv6, developed a foundation in low-level programming languages, acquired detailed knowledge of how memory works in computers.
Skills: C, ARMv6, debugging

CSE 100: Advanced Data Structures — San Diego, California
January 2023 – Present
– Learning and designing high-performance data structures including balanced and unbalanced trees, graphs, hash tables.
– Practicing performance analysis of both average case and amortized performance
– Utilizing debugging methods such as gdb and valgrind; advanced programming skills in C++
Skills: C++, STL Library, Object-Oriented Programming, Advanced Data Structures, Algorithms, debugging

Honors

Provost Honors — December 2021, March 2022, December 2022
– Students who achieve 3.5 GPA or higher in at least 12 graded units receive Provost Honors for the quarter.