

Gabriel da Costa Alonso

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EDUCATION

California Polytechnic State University
Bachelor of Arts in Computer Science, Minor in Japanese

San Luis Obispo, CA
Sept. 2021 – June 2025

Relevant Coursework

Software Engineering, Operating Systems, Programming Languages, Systems Programming, Dynamic Web Development, Computer Security, Design and Analysis of Algorithms, Theory of Computation, Databases

EXPERIENCE

Full-Stack Engineer (Synergistic Intelligence)

Sept 2024 – Mar 2025
San Luis Obispo, CA

California Polytechnic State University

- AI-centered startup focused on helping people get past difficult moments and reaching the flow state for peak mental effectiveness
- Worked in a group of 5 programmers in an AGILE workflow for various sprints over 20 weeks
- Met with owners of startup weekly to report progress on production as well as defining the future of the startup
- Implemented OAUTH compatibility with LinkedIn
- Trained OpenAI API LLMs with relevant company data and embedded on website

GenKEY Sound Collective

Sep. 2024 – June 2025
San Luis Obispo, CA

California Polytechnic State University

- Collective of 15+ band members across 2 bands centered on Japanese music
- Managed the gig bookings for paid and unpaid performances
- Acted as Treasurer, managing \$500+ to make sure future members had instruments to use
- Recruited and onboarded 6 new members

PROJECTS

Polypicks | *JavaScript, HTML, React, Express, MongoDB, Git*

Feb 2024 – March 2024

- “Betting” Website where users can be on the results of events relating to CalPoly
- Implemented frontend using React framework, backend using Express, MongoDB as database
- Used AGILE to collaborate with 4 other group members over 3 sprints, focusing on creating a, MVP
- Responsibly managed Git repository in a collaborative project

MUSH 2.0 (Minimally Useful SHell 2.0) | *C, UNIX*

May 2022

- Created the back-end logic for a simple shell that interacted with a UNIX server
- Implemented interactive and batch processing, redirection (pipelines), and basic commands such as cd (change directory) and ls (list information)
- Allowed support for quoted strings, backslashes, SIGINTs
- Properly handled malformed or inexecutable commands

Randomly Generated Dungeon Crawler Game | *C#, Unity, Github*

July 2020

- Teamed up with 6 other students to build a game from scratch
- Created a game where player traversed a procedurally generated dungeon made up of rooms with puzzles and enemies
- Acted as Design Lead where I coordinated with the programming, art, and music leads to assure the final product came out according to the designers' vision
- Assisted in odd jobs such as coding scripts for certain rooms and creating pixel art for in-game assets
- Focused on making simple and bite-sized yet fun gameplay meant to last around 10 min

TECHNICAL SKILLS

Programming Languages: Java, Python, C#, C, MySQL, JavaScript, TypeScript, HTML/CSS, Scala

Frameworks: React, Node.js

Developer Tools: Git, VS Code, Visual Studio, PyCharm, IntelliJ, WebStorm, Unity

Collaboration: Github, Jira, Confluence, Trello, Microsoft Office, Google Suite

Languages: English, Portuguese, Spanish, Japanese