

# GABRIEL MALEK

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## EDUCATION

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### California State University - Sacramento

Bachelor's, Computer Science

- **Relevant Courses:** FSAE (Formula SAE) student-made formula race cars club, Hornet Aerospace, and Propulsion

## PROJECTS & OUTSIDE EXPERIENCE

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### CHESSUI

July, 2022

Web Project

July 2022 - November 2022

- Developed a front-end UI in Solidjs-Typescript(similar to ReactJS). Using from the ground-up chess logic, with unit testing.
- Developed a Golang backend that implemented WebSockets and allowed for not only real-time multiplayer gameplay but real-time streaming of the mouse positions, for a nice UI experience.
- Implemented JWTs authentication to protect the backend endpoints.
- Deployed the app to an Ubuntu EC2 instance, using Nginx to serve the main webpage, and proxy pass for the backend API.
- Utilized a third-party API for the username photos.
- Obtained SSL certification using Certbot.
- Created several made from scratch small tools, including a custom drag-and-drop system, a WebSockets virtual mouse library that allowed for the opponent's mouse to be displayed on the screen, and a WebSocket handler to auto-reconnect.

### Portafolio Website

Web Project

July 2022 - Present

- Originally developed in Next.js later refactored to Solidjs for improved performance
- Utilizes tailwinds CSS.
- Several animations were originally only available as Reactjs libraries but replaced by custom Solidjs versions.
- Written in Typescript.

### International Student Station

Lead Developer

August 2023 - Present

- A University app project developed using Flutter.
- Utilized MongoDB for the database
- Backend was written in Python using Flask
- Golang was used for WebSockets.
- Auth was implemented from scratch using secure cookies
- App implemented post feeds, as well as resource navigation, and real-time messaging.

### Other Relevant Experience

- Extensive experience utilizing OpenAI API's.
- Use of Postman for the development of REST API's.
- Use of SQL databases.
- Using Figma for UI/UX development
- Experience in other languages including C/C++, Java, Dart, Go, Python, and Typescript.
- Experience with text-embedding models, and other open-source AI models, as well as Vector Databases using LangChain.
- Utilizing openAI's whisper for real-time audio transcription.

## PROFESSIONAL EXPERIENCE

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### UbreakiFix

Sacramento, CA, USA

Tech Lead

August 2021 - May 2022

- Repaired various electronic devices with attention to detail and quality.
- Provided exceptional customer service and technical support.
- Conducted hardware and software upgrades to improve device performance.
- Collaborated with team members to meet daily repair quotas and exceed customer expectations.
- Diagnosed and troubleshooted to provide effective solutions.
- Communicated repair status to customers.
- Conducted sales and upselling of products and services.

## SKILLS & INTERESTS

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**Skills:** GraphQL, JavaScript, Git, HTML/CSS, Java, MongoDB, React.js, SQL, MailChimp, Python, TypeScript, Go, Flutter, Next.js, AWS, MySQL, NoSQL, Node.js, Docker, Linux/Unix

**Languages:** Spanish

**Interests:** Web Development, DevOps, Machine Learning, OpenAI API's.