Mateo Bernasconi Vargas

 linkedin.com/in/mateo-bernasconi | bernasconivargas.mateo@gmail.com | +52 33 1605 8065

 github.com/mateobv07 | mateo-portfolio.com

EDUCATION

Instituto Tecnologico de Estudios Superiores de Monterrey　　　Aug. 2021 – June 2025 (Expected)

B.S. in Computer Science and Technology　　　*Guadalajra, MX*

GPA: 97/100

WORK EXPERIENCE

Google | STEP Intern　　　June 2023 – Sept. 2023

Part of an internal tooling team within google core at the Atlanta office

- Created a Pub/Sub topic enabling the broadcasting of rollbacks that met specific criteria within Google's code base, complemented by an **RPC** endpoint to proactively inform opted in teams of potential issues
- Coded **SQL** queries to automatically detect, track and visualize degradation with team's code findings
- Implemented a feature using **C++** to help users understand and test their configurations when onboarding with the team's tools

Intel | Software Engineer Intern　　　Oct. 2022 – June 2023

Part of the Input Output Margin Tool team at the Guadalajara office

- Identified and fixed numerous front-end UI bugs within the team's **Angular** based application, leading to a better user experience and enhanced usability
- Utilized **Cypress**, a **JavaScript** front-end testing tool, to develop over 40 automated end-to-end tests significantly improving code quality and ensuring robust continuous integration processes
- Actively collaborated with team members using version control systems such as Git and Jira

Aporia Education | Software Developer　　　Feb. 2022 – April 2022

Worked with two other developers to build a web app for a local education startup

- Integrated **Axios** for robust **REST API** calls and incorporated **Stripe** for secure payment processing, streamlining the online transaction process
- Analyzed and identified performance bottlenecks, then implemented paginated scrolling, which resulted in improved catalog page loading times by 30% , enhancing user engagement
- Developed an admin and teacher statistics panel using **Vue.js**, providing insightful data visualization that facilitated better educational resource management and decision-making

PROJECTS

Youtube Clone　　　Oct. 2023 – Current

- Utilized **Google Cloud** Pub/Sub as a message queue to trigger **Cloud Functions** for video processing with FFmpeg, to learn about scalable and reliable content management
- Coded a responsive front-end by leveraging **React** and **TypeScript**, resulting in a user-friendly experience mimicking YouTube's core functionalities
- Made use of **Firebase** for secure data storage and took advantage of Firebase Functions to develop an API

Real Time Chat Web App　　　July 2023 – Sept. 2023

- Implemented real-time chat utilizing **Django** and Django Channels to handle **Web Sockets**
- Used **React** in conjunction with Material-UI to design and implement a user-friendly and responsive front-end interface, enhancing the application's visual appeal and user experience
- Created an API using the Django REST Framework that includes **JWT authentication** handling and used Swagger with drf-spectacular to document it

TECHNICAL SKILLS

Programming Languages: Python, C++, TypeScript, SQL, HTML/CSS

Frameworks/Technologies: React, Django, Express.js, Vue.js, Matlab, Bootstrap

Development Tools:: Git, GitHub, VSCode