Education

Universidad de Chile

Computer Science Engineering

EXPERIENCE

Blissway

Google

Software Engineer

Software Engineer

- Oct 2023 Now \rightarrow Highway Safety: Designed and developed features and improvements for safety enforcement in highways using cutting-edge roadside technologies and trip building.
- Video Tolling Backend: Designed and implemented the backend stack in charge of video tolling, including APIs, authentication, human review processing, and integration with roadside and toll collection services. Main technologies include Typescript, NodeJS, NestJS, Redis, Python, Celery, FastAPI, MongoDB, Postgresql, Docker, AWS.
- \rightarrow Modern Creators & Formats, Google Search: Tech-lead for modern Google Search features tailored for content creators, like YouTube Shorts and stories distribution and creation prompts for web and native. Also applied NLP techniques for fluent prompt generation.
- \rightarrow People Search and Creator Channel, Google Search: Designed and developed features for People Search cards and Creator Channel for Google Search, in which users can make their contact information and social profiles visible across Google Search and Discover; also built Golang metrics pipeline for internal analytics and user engagement.
- Knowledge Panel Verification, Google Search: Designed and developed features for knowledge panel (KP) verification (a.k.a. Claiming) in the world's most popular search engine, using cutting-edge web technologies. Also, developed a fully automated integration testing solution for KP Claiming, using Java and WebDriver. Finally, built a data analytics dashboard for KP Claiming metrics, using Google Cloud Platform tools like Looker Studio, Google Analytics, BigQuery and SQL.

Software Developer

Telefónica Investigación y Desarrollo

Santiago, Chile Nov 2017 - Aug 2018

Santiago, Chile

 \rightarrow **Desktop application**: Developed a Windows application for 3D scanning and integration with online healthcare services using Electron, React.js, Bootstrap, C#.

Mar 2017 - Jun 2017 Software Developer \rightarrow Infrastructure as Code: Development of software for creating Hadoop environments oriented to Big Data using Ansible, OpenStack, Ambari.

Center for Climate and Resilience Research (CR)2	Santiago, Chile
Data engineer	Sep 2016 - Jan 2017
\rightarrow Regional Climate Simulations: Data management of NetCDF climate simulations, using	Bash, Python, Linux.
Universidad de Chile	Santiago, Chile
Assistant Professor, Computer Graphics, Visualization and Modeling for engineers	Mar 2016 - Jul 2016
Universidad de Chile	Santiago, Chile
Course Assistant, Software Engineering I	Mar 2016 - Jul 2016
\rightarrow Github tool: Development of visualization tool for GitHub project metrics, using Python, Bootstrap.	HTML, Javascript,
Penta Analytics S.A.	Santiago, Chile
Software Developer	Sep 2015 - Dec 2015
→ Database Maintenance : Development of web interface for update and validate database t Django, Javascript, Bootstrap, SQL.	ables, using Python,

Universidad de Chile

Assistant Professor, Computer Graphics, Visualization and Modeling for engineers

Email: matias.imc@gmail.com Phone : $+1\ 650\ 880\ 5438$

> Santiago, Chile Mar 2012 - Aug 2018

> > Santiago, Chile

Mountain View, CA Sep 2018 - Jul 2023

Santiago, Chile Mar 2015 - Jul 2015

PROJECTS AND COURSEWORK

Engineering Thesis: Developed a type-based declassification inference system for Dart as my engineering degree thesis. https://github.com/matiasimc/TRNIdart.

Scala course project: Development of web application with actor system using Scala, Play, Akka.

Distributed Systems project: Development of distributed Zatacka game using Java RMI.

LANGUAGES

English: Advanced Spanish: Native

PROGRAMMING SKILLS

Languages: Java, Python, Scala, Dart, JavaScript, TypeScript, SQL Technologies: React, Django, Git, Linux, OAuth