BENJAMIN EARLE

SOFTWARE ENGINEER
PONTIFICIA UNIVERSIDAD CATÓLICA DE CHILE

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LANGUAGES
●●●● English
●●●● Spanish

SKILLS SUMMARY
●●●● Programming
●●●○ Software Development
●●●● Deep Learning (PyTorch)
●●●● Python
●●●○ JavaScript, React, Vue & Node.js
●●●○ Ruby, Ruby on Rails
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AWARDS RECEIVED
🔖 Honors, Fundamentals of Engineering (2019)

🔖 Science Award, Colegio San Benito (2015)

PERSONAL PROFILE

I am a software engineer with experience on data structures, machine learning, API usage and mobile/web development. I am a fast learner and great problem solver.

WORK EXPERIENCE

Full Stack Engineer
Platanus | Mar 2022 - Present

- Contributed to de development of multiple client development projects.
- Updated and created front-end components using Vue.js and React Native.
- Created and modified REST API endpoints, which interacted with an SQL database.
- Created and modified unit and system tests in Ruby and JavaScript applications.
- Contributed to the deployment process of web and mobile applications.
- Researched and used linter libraries to build an open source ruby code style library with internal best practices.
- Interacted with client requirements to build ready for production features.
- Interacted with designers to implement their wireframes in front-end applications.

Full Stack Engineer (Internship)
Morgan Solar | Jan 2020 - Mar 2020

- Contributed to the development of a photovoltaic module analytics web platform.
- Updated and created front-end components using Vue.js for data analysis, management and visualization.
- Created and modified REST API endpoints, which interacted with an SQL database.
- Write technical documentation on the developed software.
- Expanded systems to support a variety of 3rd party sensors.

Front End Mobile Programmer
AlertaUC | Jul 2019 - Dec 2019

- **Capstone Project:** Application built for managing health, security and infrastructural emergencies within the university's camp
- Built a React Native application connected to a REST API hosted in AWS.
- Connected mobile app to Firebase for Authentication, Storage and Messaging.
- Set up continuous integration for mobile.

Front End Mobile Programmer
SalgoDe | Oct 2019 - Dec 2019

- Built a React Native application for a carpooling service in response to Chile's social crisis of 2019.
- Led the mobile development team.
- Managed analytics and push notifications.

PUBLICATIONS

Object attention and contextualization for vision and language navigation
Benjamín Earle, Álvaro Soto

- https://buscador.bibliotecas.uc.cl/permalink/56PUC_INST/bf8vpj/alma997397024403396

Bridging the Visual Semantic Gap in VLN via Semantically Richer Instructions
Joaquín Ossandón, Benjamín Earle, Álvaro Soto | ECCV 2022

- https://doi.org/10.1007/978-3-031-19836-6_4

Flapjack: Data Management and Analysis for Genetic Circuit Characterization
Guillermo Yáñez Feliú, Benjamín Earle Gómez, Verner Codoceo Berrocal, Macarena Muñoz Silva, Isaac N. Nuñez, Tamara F. Matute, Anibal Arce Medina, Gonzalo Vidal, Carlos Vidal Céspedes, Jonathan Dahlin, Fernán Federici, and Timothy J. Rudge | ACS Synthetic Biology

- https://pubs.acs.org/doi/10.1021/acssynbio.0c00554

Pontificia Universidad Católica de Chile

Masters in Artificial Intelligence | Jul 2020 - Present

- Average grade: 6.6/7
- Studied the problem of Vision-Language Navigation
- Used Deep Learning techniques to approach the problem and explore possible solutions that include computer vision, natural language processing and reinforcement learning.

Pontificia Universidad Católica de Chile

BSc Computer Science | Mar 2016 - Dec 2021

- Average grade: 6.3/7 (9th best grade in my promotion of 643 students)
- Major in Computer Science
- Minor in Industrial Engineering

Course Assistant

Pontificia Universidad Católica de Chile | Mar 2017 - Dec 2019

- Classical Mechanics: Created classical mechanics exercises weekly for the course's students and solved them during lectures. (2 semesters)
- Software Engineering: Graded exams and evaluated projects acting as product owner. (1 semester)
- Optimization: Graded exams and evaluated projects. (2 semesters)
- Advanced Programming: Created and graded programming exercises which would be solved during a lecture or presented as an evaluation to the students.
- Algorithm Design and Analysis: Graded exams during the semester. (1 semester)
- Advanced Topics in Artificial Intelligence: Evaluated student's weekly paper reviews. Evaluated, managed and guided student's research projects, involving bibliographic research, methodology and analysis.

Acting

Colegio San Benito | Mar 2013 - Dec 2015

- Acted as extra and as protagonist in three plays (Les Miserables, Blood Weddings, Hairspray)

Rock Band

Colegio San Benito | Mar 2010 - Dec 2015

- Lead and rythm guitar player in my school's rock band.