

Armando Ugalde

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EDUCATION

National Autonomous University of Mexico

Mexico City, Mexico

Bachelor of Science in Computer Engineering

Expected: May 2024

- GPA: 3.94
- Awarded Telmex national academic excellence scholarship, granted to 2000 students across Mexico.
- Member of CPCFI, School of Engineering's Competitive Programming Club.

EXPERIENCE

Meta University Engineering Intern

May 2022 - August 2022

Meta

Menlo Park, California

- Outlined a project idea from scratch, including product evaluation, user stories and wireframes.
- Established weekly sprint plans independently, splitting features into manageable tasks.
- Held weekly discussions with my manager to ensure project development was aligned with requirements.
- Developed an Android pet adoption application using a database and an external API (PetFinder).
- Implemented a pet ranking algorithm according to user preferences.
- Implemented a nearby pets map view with multiple user parameters and visual cues.
- Helped peers debug and solve technical problems multiple times.

Production Engineering Fellow

June 2021 - August 2021

Major League Hacking, powered by Meta

Remote

- Developed a blog web application using Python, Flask and PostgreSQL.
- Deployed and maintained a web application using Nginx as a reverse proxy in an EC2 instance.
- Containerized application deployment using Docker and Docker Compose.
- Implemented a CI/CD pipeline using Github Actions.
- Acquired theoretical knowledge and practical skills in DevOps, Linux and System Administration.

PROJECTS

Petitions platform | TypeScript, Node.js, PostgreSQL, TypeORM, NestJS, React

June 2020 – Present

- Developed a petitions platform to enhance communication among UNAM's community.
- Implemented a REST API using Node and NestJS.
- Modeled data entities in a normalized database schema.
- Implemented a secure authentication system using JSON Web Tokens.

Image equalization | C, Python, OpenMP

December 2020 - January 2021

- Developed a command line C program to enhance contrast levels in a digital image.
- Implemented a histogram equalization algorithm in both parallel and sequential fashions.
- Achieved a 4x speedup by parallelizing the program using the OpenMP library.
- Developed a Python program to generate plots containing relevant information about the image.

Personal organizer | JavaScript, Node.js, Express, MongoDB

November 2019 - January 2020

- Developed a personal organizer application using Node and Express.
- Implemented a secure session-based authentication system.
- Improved user experience by replacing page requests for AJAX requests.
- Automated deployment process using Heroku.

TECHNICAL SKILLS

Programming languages: C++, Java, JavaScript, TypeScript, C, Python

Technologies and frameworks: Node.js, Spring Boot, NestJS, Express.js, SQL

Tools: Git, Bash scripting

Languages: English, Spanish