

Angel Elliott Ulloa

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EDUCATION

Instituto Tecnológico de Mexicali <i>M.S. Computer Science, Magna Cum Laude</i>	08/2020–12/2022 Mexicali, MX
University of California, Los Angeles (UCLA) <i>B.S. Mathematics with a Specialization in Computing</i>	09/2015–06/2019 Los Angeles, CA

WORK EXPERIENCE

Crimson Education Capstone Leadership Project Advisor	06/2024–Present Remote, US
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- Manage the development of 70+ full stack mobile applications and websites, podcasts, video games, nonprofits, and educational curricula by high school students.
- Develop full stack software development roadmaps for students with no coding experience.
- Featured projects:
 - [Mintable](#): A crossplatform personal budgeting app coded with *Node.js*, *Typescript* (*React Native*), *Tailwind CSS*, and *Anime.js*, and *AppWrite*. It has 100+ downloads.
 - [Source Closet](#): A website of rare historical sources coded with *Python* (*Flask*), *SQLite*, *Javascript* (*Motion.js*), and *OpenAI's RESTful API*. It has 200+ users.
 - [Tumor Minutes](#): 10th most popular biology podcast in Canada! A podcast about tumors.
- Recipient of the 2024 Rising Star Advisor award.

Fullstack Developer

- Maintain a large database of capstone students, mentors, and projects using *Supabase* and *PostgreSQL*.
- Sole person in charge of fixing bugs and integrating new features into Crimson Education's Capstone Mentor Console, a website coded with *Node.js*, *React*, *Vite*, *Tailwind*, and *Supabase's RESTful API* and *Github's CLI* for version control.

American Mathematical Society (AMS) LaTeX Support Specialist	01/2024–05/2024 Providence, RI
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- Upgraded the LaTeX code of over 500 mathematics research manuscripts to comply with AMS production standards.
- **Programming:** LaTeX, Perl. **Version control:** Subversion.

Instituto Tecnológico de Mexicali Lead Machine Learning Researcher	08/2020–12/2022 Mexicali, MX
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- Published (first author) an analysis of CS solutions to violence against women in [IEEE Access](#).
- Designed, pretrained, and fine-tuned a BERT LLM to detect social media violence against women, outperforming the current literature (acc. 84.5%). Published on Springer's [SNAM](#) (first author).
- Leveraged sensors and machine learning to develop AI-powered support for dementia patients. Published research in [IEEE Sensors Journal](#).
- **Programming:** Python (*PyTorch*, *Transformers*, *SpaCy*, *Numpy*, *Pandas*). **Containerization:** Docker.