Trevor Ortega

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Education:

- **Western Washington University** — Bellingham, WA

  Computer Science: B.S | GPA: 3.63 — *Sept. 2018 – Mar. 2022 (Expected)*

  - Relevant Coursework: Data Structures, Analysis of Algorithms, Object Oriented Design, Computer Systems
  - Member Organizations: Society of Hispanic Professional Engineers, WWU CS Distinguished Scholars, WWU AI Association, WWU Whiteboard Coders

Experience:

- **SPIE, the International Society for Optics and Photonics Technology** — Bellingham, WA
  Software Development Intern — *Oct. 2020 – Mar. 2021*
  - Will be using a C# ASP.NET MVC framework to develop web applications for hosting photonics research.
- **Faithlife Corporation** — Bellingham, WA
  Software Development Intern — *Jun. 2020 – Sept. 2020*
  - Working within a small team, upgraded REST API routes and C# ASP.NET methods to aggregate thousands of payment transactions.
  - Improved visualizations and analytics of donations for hundreds of organizations with JavaScript React.
- **Western Washington University** — Bellingham, WA
  Undergrad Research Assistant — *Dec. 2019 - Present*
  - In collaboration with Political Scientists at the University of Pennsylvania, using Deep Learning techniques in PyTorch in order to detect political borders from satellite imagery.
  - In aid of a graduate research project, utilized Python to scrape/process terabytes of livestream data and trained a Computer Vision model to detect unique video frames from livestreams.
- **Jethro Mobile LLC** — Bellingham, WA
  Web Development Intern — *Jan. 2020 – Mar. 2020*
  - Independently built website pages and improved UI/UX features.
  - Improved search engine optimization through encoded HTML and JSON-LD data formatting.

Skills:

- Languages: Python, Java, C#, JavaScript, C, HTML, CSS
- Tools: React, ASP.NET, Django, Git, Jira, Unix, Vim, tmux
- Concepts: Data Structures & Algorithms, Object-Oriented Design, Web Development, ML / AI, Deep Learning

Personal Projects:

- **Tweet Synthesizer**
  - Designed and deployed a full-stack web application using the Django Framework.
  - Utilized Markov Chains and an open source Twitter scraper in order to create new Tweets.
  - Currently hosted on Heroku at: https://tweet-synthesizer.herokuapp.com/
- **Stock Market Predictor**
  - Developed and deployed a full-stack web application in the C# ASP.NET MVC framework.
  - Used dynamic graphs to display all market data based on a novel prediction formula.
- **Membership Prediction for SPIE**
  - As a part of a small team, developed machine learning models for a non-profit business.
  - Predicted the membership type of website users with over 92% accuracy.