JOSEPH ALLRED

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EDUCATION

Bachelor of Science in Computer Science   **2021 - Anticipated Graduation May 2025**
University of Colorado Boulder - Boulder, CO
Cumulative GPA: 3.6/4.00

Relevant Coursework Completed/In Progress: *Data Structures, Algorithms, Computer Systems, Operating Systems, Database Systems, AI, NLP, Object Oriented Analysis & Design, & Cybersecurity*

Mission San Jose High School   **2017-2021**

PROJECTS

Algorithmic Data Linking & Matching Research
- Supported Dr. Simona Abis on data sharing & financial markets research in developing Python-based matching algorithms to associate Analysts & Brokerages across datasets
- Collaborated with a team of five undergraduates to design, implement, and test scripts for accurate & efficient assignments of unique identifiers
- Optimized scalability across large datasets, automating work previously performed manually

NLP Political Sentiment Company Classifier
- Utilized Naive Bayes, Bidirectional LSTM, & RNN models in NLP text classification task
- Trained & utilized effective models to evaluate political sentiment of leading news corporations
- Models trained on scraped & tokenized data from public HuggingFace datasets

Object Oriented Game Design
- Applied Adapter, Builder, Factory & Singleton patterns to build scalable, modular game systems
- Developed game logic using OO design principles & implementing connection algorithms

Portfolio Website @ https://jsallred.github.io/

SKILLS / LANGUAGES

C, C++, Linux, Python, SQL, Scala, Git & Github, HTML, CSS, Javascript, Bootstrap, Docker, Agile

WORK EXPERIENCE

Assistant Swim Coach – Highlands Sharks Swim Team – Fremont, CA   **May 2022 – July 2023**
- Provided elementary through advanced instruction for 100+ swimmers ages 6 through 18
- Coached the team through League Championships July '22 & '23 winning the League Spirit Award

Lifeguard / Swim Instructor – Highlands Sharks Swim Team – Fremont, CA   **May 2019 – July 2022**
- Provided one-on-one swim instruction for children & adults
- Facilitated a friendly & engaging lesson environment to support each client's personal needs

EXTRACURRICULARS

CU Boulder Club Swim Team – Boulder, CO   **Fall 2021 – Present**
- Student Board Travel Officer → organized all meets in and out of state for the '23 - '24 season

Cybersecurity Club – Boulder, CO   **Fall 2024**
- Engaged in collaborative learning on network security, cryptography, and incident response

AWARDS / CERTIFICATIONS

Dean's List   **Fall 2023 & Spring 2024**
First Aid, CPR/AED, & Lifeguard Certified by the American Red Cross   **2019 - Present**