Carlo Golfo

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EDUCATION

California State Polytechnic University Pomona August 2020 – May 2024

Bachelor of Science in Computer Science Pomona, CA

Relevant Courses: Data Structures and Analysis of Algorithms, Machine Learning, Data Structures, Cryptography and Information Systems, Big Data Analytics And Cloud Computation, Social Computing, Cyber Security Network Communication

EXPERIENCE

Azetta.ai Berkeley, CA

Ai Research Engineer Intern November 2024 - Current

- Studied the mathematical foundations of linear attention, understanding how feature map factorization reduces $O(L^2)$complexity to O(L)
- Learned connections between kernel regression, attention mechanisms, and normalized weighted averages in transfer architectures
- Developed intuition for bias-variance tradeoffs in kernel approximation through quadrature nodes and random feature dimensions
- Studied advanced kernel methods including positive definite kernels, reproducing kernel Hilbert spaces, and Schoenberg's theorem for isotropic kernels on spheres

Popper Los Angeles, CA

Software Engineer Intern July 2023 – September 2023

- Utilized React Native, developed a feature enabling simultaneous capture from both front and rear cameras, resulting in a 86% increase in user interaction
- Utilized GitHub for version control and collaborative software development with proficiency
- Learned and implemented Jira for efficient project management, issue tracking, and agile workflow optimization in a startup environment
- Improved app load times by 56% by refactoring code and optimizing usage in React Native
- Integrated Google Maps into Popper to add enhanced functionality to the app
- Collaborated with cross-functional teams in an Agile environment, participating in daily stand-ups, sprint planning, and retrospectives

Weekly Pomona, CA

Software Engineer Intern September 2022 – December 2022

- Developed a friend recommendation system using matrix factorization to improve user engagement which lead to a 45% increase of match making
- Collaborated with a team to build and manage a database using Python, ensuring efficient data storage and retrieval
- Proficient in analyzing user needs to gather, interpret, and leverage data for optimizing user interactions and enhancing overall user experience

PROJECTS

Machine Learning Research Project – Breast Cancer Diagnosis *November 2023 – December 2023*

- Collaborated with a team of six to develop a machine learning model aimed at early breast cancer detection using the Breast Cancer Wisconsin dataset.
- Implemented and evaluated multiple classification algorithms, including Support Vector Machines, K-Nearest Neighbors, Decision Trees, Naive Bayes, and Neural Networks using TensorFlow and PyTorch.
- Preprocessed and analyzed data to enhance model accuracy, focusing on minimizing false negatives to improve diagnostic reliability.
- Utilized Jupyter Notebooks for code development and visualization, facilitating clear communication of results and methodologies.
- Managed version control and collaborative coding efforts through GitHub, ensuring seamless integration of team contributions

Full Stack Android App January 2023 - May 2023

- Developed the core functionality of the application using Java, while designing and implementing a user-friendly interface
- Leveraged Android Studio as the primary development environment, overseeing the full app layout design and user experience
- Gained proficiency in app publishing and distribution processes including app store submission and post-launch updates

SKILLS & INTERESTS

Programming Languages: Java, Python, React Native, Golang, HTML, CSS, and C++

Operating Systems & Tools: Linux, macOS, Gitlab CI/CD, Jenkins, Docker, Spring Boot, Postman, Selenium Testing Framework