Spencer Rojahn

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Education

University of Rochester, Rochester, NY

- Undergraduate *student-athlete* working towards B.S. degree; Member of the varsity baseball team; Expected graduation Spring 2022.
- **Major**: B.S. Computer Science; **Minor**: Economics; **Current GPA**: 3.47; **Major GPA**: 3.51
- **Awards:** Four-year Merit Scholarship; Liberty League All-Academic Team for Baseball (2020; 2021); Dean's List (Fall 2018; Spring 2019; Spring 2020; Spring 2021)
- **Certifications (Coursera):** Introduction to Cybersecurity Tools & Cyber Attacks (Summer 2021); Cybersecurity Role, Processes & Operating System Security (Summer 2021); Cybersecurity Compliance Framework & System Administration (Summer 2021). These three courses are part of the 7-course *IBM Cybersecurity Analyst Professional Certificate*.
- **Relevant Course Work**: Data Structures & Algorithms, Computer Models & Limitations, Computational & Formal Systems, Artificial Intelligence, Machine Learning, Machine Vision, Computer Networks, Computer Organization, Operating Systems, Programming Language Implementation & Design, Micro- and Macro-Economics, and Money, Credit & Banking. Currently enrolled in Natural Language Processing and Public Finance.
- **Sample Computer Science Projects (more projects can be found on my GitHub portfolio):**
    - Multi-Layer Perceptron (Simple Neural Network) - Implemented a MLP with one layer of hidden units where backpropagation was used to determine sufficient weights for the network. Language: Python.
    - Hidden Markov Model (HMM) - Implemented an HMM that was trained on the IMDB dataset (movie reviews) using the Baum-Welch algorithm (Expectation Maximization) while making use of the Forward-Backward algorithm and Viterbi algorithm. Language: Python.
    - TCP Connection with SSL/TLS-style Handshake Protocol - Implemented a four-way SSL/TLS-style authentication handshake protocol over a TCP connection, making use of the RSA encryption algorithm. Language: Java.
    - Concurrent (Multi-thread) Conway's Game of Life: Implemented a concurrent version of Conway's Game of Life. Language: Java
    - Shell - Implemented a basic tsh shell. Language: C.
    - Huffman Encoding - Implemented the Huffman Encoding Compression algorithm. Language: Java.
    - Relational Database - Constructed a set of relational database tables that support tuple insertion, lookup and deletion, along with various queries that make us of the join, selection and projection functionalities between the multiple database tables. Language: C.
    - Implemented a Recursive Descent parser (LL(1) parser) for a simple calculator language. Language: C++.

Palo Alto High School, Palo Alto, CA

- Graduated Spring 2018; **GPA**: 3.92; **SAT:** 1450 (Math: *800*, English: 650)
- **Awards:** Math Department Distinguished AP Senior; Golden State Seal of Merit; Basketball All-League (2016, 2017, 2018); Baseball All-League (2018); Varsity letter-winner in Golf

Work Experience

OB Sports Golf Management, Palo Alto, CA

Course Maintenance Staff/Guest Services, Jun 2019 - Aug 2019

- Helped maintain and run the Bayland's Golf Links through various roles, which included greeting and assisting customers to the first tee, cleaning carts, and maintaining the quality of the establishment.

Gatorade, Stanford, CA

Beverage Distributor, May 2018 - Aug 2018

- Represented Gatorade at the Stanford University Sports Summer Camps, which entailed making, setting up, and delivering products throughout the day to multiple summer sports camps at Stanford University.

Skills and Interests

Programming Languages: Java, Python, C/C++, Linux/Unix, HTML, CSS, MySQL
Software: Git, TensorFlow, Pandas and NumPy, Docker (basics), Visual Studio Code, Wireshark, Microsoft Office
Interests: Machine Learning and A.I., Software Development, Fintech, Computer Vision, Renewable Technologies (Autonomous Vehicles, Solar, etc.), Systems Architecture and Concurrency, Computer Networks and Security, Problem Solving, Data Analytics, and Sports