Shayan Ghafoori

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EDUCATION

University of California, Los Angeles (UCLA) — Los Angeles, CA
B.S. Mathematics of Computation, minor in Statistics — *Sept 2019 – June 2023*

Relevant Courses: OOP in C++, Computer Organization, Data Structures & Algorithms, Operating Systems, Programming Languages, Software Engineering, Optimization, Numerical Methods, Machine Learning

TECHNICAL SKILLS

Languages: C++, Python, JavaScript/TypeScript, CSS/HTML, R
Technologies: React.js, Node.js, MongoDB, Tailwind CSS, Selenium, NumPy
Tools & Platforms: Git, Docker, Linux/Bash, CMake, Google Test

EXPERIENCE

Software Engineer — Oct 2023 – Present
Raytheon Technologies — *Santa Barbara, CA*
- Develop real-time embedded software (C, C++, VxWorks) for signal processing applications
- Automated training (via Selenium) of a RAD Large Language Model, accelerating its deployment by 8 weeks
- Engineered Python tool that matches 5.5K+ engineers to projects, optimizing and reducing idle resource allocation—saving millions in annual overhead costs
- Delivered C#/WPF GUI for hardware and signal-processing tests, streamlining factory production and deployment
- Configured GitLab CI/CD pipelines with Jenkins agents, Artifactory, and Docker containers for Rust development

Full-Stack Software Engineer — Sept 2022 – Oct 2023
WagerWire - Sports Betting Startup — *Los Angeles, CA*
- Built company website (React.js, TypeScript, Tailwind; ~70% GitHub contribution) resulting in 30K+ monthly visits and was featured on major sports media outlets including ESPN, Barstool, and Bleacher Report
- Integrated website with Sanity.io, allowing the media team to easily publish content through an intuitive GUI
- Engineered and refined a bet pricing algorithm from a basic application to a sophisticated, multivariate system by leveraging analysis of 22 years of sports betting data (Python, R)
- Analyzed data from 1K+ users to identify key performance indicators for the upgrade of mobile app

Software Engineer, Data Analyst Intern — June 2022 – Sept 2022
WagerWire - Sports Betting Startup — *Los Angeles, CA*
- Enhanced an MVP for app integration (React.js), leading to a referral system generating $200-$500 per new user
- Utilized Selenium (Python) to scrape and analyze 120K+ sports betting probabilities across six leagues
- Connected various sports odds APIs

PROJECTS

Tesla Stock Predictor | *Python, R* — April 2024 – June 2024
- Developed a predictive algorithm via a maximum-likelihood approach to regression (considering Gaussian noise)
- Implemented recursive feature elimination with 10-fold cross-validation to optimize model performance

WagerWire.com | *React.js, TypeScript, Tailwind CSS, Sanity.io* — June 2022 – Oct 2023
- Website complementing the WagerWire mobile app that enables users to buy, sell, and trade sports bets
- Utilizes server-side operations to protect a proprietary bet valuation algorithm
- Enables sharing of user-customized graphs via dynamic, shareable links

BruinSports | *MongoDB, Express, React.js, Node.js* — March 2021 – June 2021
- Website for UCLA students to post and RSVP for pickup games

For more projects and details, check out shayan-ghaf.com#projects