Jacob Young

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EDUCATION

University of Washington — Sept. 2021 - June 2025
Bachelor of Science in Computer Science, Computational Finance and Risk Management — *Current GPA: 3.85/4.0*

RELEVANT COURSEWORK

Courses: Computer Programming I & II, Foundations of Computing, Data Structures and Parallelism, Software Engineering, Intermediate Programming Concepts and Tools, Linear Algebra, Beginning Scientific Computing, R Programming for Quantitative Finance.

Awards: Dean's List (at University of Washington, for all attended quarters), Eagle Scout.

SKILLS

Languages: C/C++, Java, Python, JavaScript/TypeScript, HTML/CSS, Matlab, Bash, R
Technologies: Git/GitHub, Unix Shell, VS Code, IntelliJ IDEA, GraphQL, Rest API, Firebase
Frameworks: Node.js, React.js, Llama Index, Flask, Django, Plotly-Dash

WORK EXPERIENCE

TechNext Inc | *Front End Developer Intern* — August 2023 - Present
- Engineering seamless React features as well as implementing MIT research-based logic in the Django framework, for use by clients such as the Department of Defense
- Contributing as part of a six-person, start-up team, leveraging user input and research notes when implementing features, meeting daily for progress and goal updates, and re-architecting and rebuilding a key product to incorporate GraphQL and React

Mission Valley Swim Club | *Lifeguard/Swim Instructor* — April 2017 - Sept. 2022
- Enforced safety regulations, monitored, and provided medical assistance to patrons.
- Taught a variety of students swimming fundamentals and racing techniques.

PROJECTS

Spotify Song Rank | *React, TypeScript, HTML/CSS, Node.js, Spotify API, Express, Chart.js, Firebase* — July 2023
- Engineered a daily game using React to challenge users to rank five random songs from the Spotify API by popularity and assess their accuracy. Utilized Chart.js to visualize trends in user scores.
- Integrated Chart.js to visualize global score data, allowing users to understand trends in difficulty.
- Utilized Firebase Cloud FireStore to add user authentication and store user data.

PDF Query Search Machine | *Python, Flask, OpenAI API, LlamaIndex* — June 2023
- Implemented a user-friendly Flask application that harnessed LlamaIndex for efficient querying and extraction of information from user-submitted PDFs using the GPT-3.5 LLM from the OpenAI API.

Guardian Security | *Javascipt, Node.js, AWS, HTML/CSS* — October 2022
- Led front-end development of a security/monitoring webpage that processed sensor data from T-Mobile DevEdge kit through AWS and used Javascript to display information, intended for hands-off childcare.
- Won Second for DubHacks 22 T-Mobile Hardware Track - Most Marketable Hack.

EXTRACURRICULAR ACTIVITIES

University of Washington Remotely Operated Underwater Vehicle | *Software Team* — Oct. 2022 - Present
- Collaborated with individuals from different areas of expertise, including mechanical, and electrical engineering, as a member of the software team, to ensure seamless integration and functionality of the Remotely Operated Vehicle (ROV) as part of a 71-person team
- Developed control core code for the team's Remotely Operated Vehicle (ROV) that achieved a ninth-place finish at the prestigious MATE ROV World Championships.

Hackathons
- Competed in DubHacks '21 & '22 and UC Berkeley AI/LLM Hackathon (2023)