

Ryan Watson

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Summary:

Front and backend software engineer who thrives on solving difficult problems and learning new technology over a weekend. Seeking full stack software development position, working on cloud services and production services that allow me to learn new frameworks and software.

- Experienced in shipping production code with quality on tight timelines
- Presented projects to CTO and cross-functional teams (PM, Marketing, DBA, Networking Admin, Researchers)
- Seeking positions starting June 2024 after college graduation.
- Created and integrated production APIs using frameworks including Express.js, Laravel

Technical Skills:

- C++, Java, Node.js, PHP, Python, MySQL, NoSQL, Google Firebase Database, React.js, TypeScript, Android & iOS application development, TCP/IP troubleshooting, React-Native, Rust, Machine Learning, Meta FastText NLP
- LAMP stack, Linux/UNIX, GitHub, Utilizing APIs

Education:

Seattle Pacific University

September 2020 – Present

- 3.96 GPA
- Data Structures 1 & 2, Systems Design, Application Programming, Database Management, Algorithm Design and Analysis, Computer Architecture, Operating Systems, Computer Networks, Machine Learning, Theory of Programming Languages, Theory of Computation, Software Engineering Capstone
- Pursuing BS in Computer Science, BA in Honors Liberal Arts

Experience:

Full Stack Software Engineer - Hngr (startup)

September 2023 – Present

- iOS consumer application with scalable cloud infrastructure
- Connecting and optimizing frontend data traffic with backend services

Undergraduate Research Fellowship

June 2023 – November 2023

- Full stack phone app connecting to prototype health monitoring microcontroller
- Android app with intuitive ways to visualize user health data
- Integrated Google firebase authentication and Google NoSQL database
- Worked with PHD researcher, connecting to custom silicon and cutting edge components

Software Engineering Intern at Versium:

June 2022 – September 2022

- Performed capacity planning for commercial API products (max throughput, implemented rate limiting)
- Developed commercial API products using LAMP stack - complex integrations across products and APIs
- Developed product through full lifecycle (ideation, design, development, testing, product sales readiness)
- Developed open-source SDKs that leverage Versium REACHs APIs in PHP and Node.js
- Drove design discussions with 1-1 with CTO and director of engineering

University Network Technician (part time):

September 2021 – December 2022

- Tier 1 support for network & telecom issues (switches, routers, WAP, UPS, PBX)
- Identified and compared alternate network solutions and tradeoffs with senior network analysts
- Network hardware configuration, hardware upgrades and maintenance
- Network design and change documentation

Software Engineering Intern at Versium:

June 2021 – September 2021

- Presented product to senior business and technical leadership of the company (CEO, head of marketing, sales)
- Built admin service into production web site that validated commercial APIs

Independent Projects:

- Chess Game (Node.js, React.js)
 - Multi-player online chess game
 - Complex algorithms for standard and advance chess moves, all possible chess moves for checkmate
 - GitHub: <https://github.com/Tyler-and-Ryan/ChessV2>
 - Project URL: <https://checkmate-the-king.onrender.com/>
- Machine Learning Research Project (Python, Pandas, NumPy)
 - Meta Fast Text library to build supervised NLP model
 - Large scale data preprocessing
 - Creating a recipe recommendation algorithm
 - Project is ongoing – expect completion by June 2024



Leadership and Awards:

- Dean's List Every Quarter (Fall 2020 – Fall 2023)
- Trustees' Scholar Award Recipient
- 2-year team captain of the Wrestling team
- Placed 6th place at the Washington Wrestling State Championships (2020)
- Wrestling Academic State Champion (2020)
- Volunteer for youth group leadership team (2019 – 2020)
- Cofounded a youth leadership conference (2019 – 2020)