Raahil Jain

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Education

University of Washington Sept 2023- May 2027

B.S. Computer Engineering | ***GPA**: 3.97* *Seattle, WA*

- **Courses**: Data Structures and Parallelism, Digital Design, Hardware Software Interface, Foundations of Computing, Data Visualiztion, Artificial Intelligence
- **Clubs**: Husky Coding Project

Technical Skills

Languages: Python, JavaScript, Java, C, HTML, CSS, PHP, Verilog, Rust
Technologies: Node.js, React.js, PyTorch, Pandas, NumPy, MatPlotLib, RESTful APIs, OAuth authetnication, Object Oriented Programming, FPGAs
Tools: Git, Tableau, Docker, RPC

Experience

Research Assistant Intern - University of Washington January 2025 – Present

- Designed and implemented a microservice cluster simulator to model large-scale distributed systems with thousands of services and devices
- Parsed 2TB of Alibaba's open source trace data using Python, Pandas, NumPy, and MatPlotLib to test and verify simulator accuracy
- Engineered RPc services in Rust with load balancing and containerization capabilities
- Simulated latency variation, network failures, and other irregularities to accurately model real life cluster conditions

Founder - TheSEOStop June 2019 – Present

- Designed and engineered a full stack web-based application from scratch to help busieness analyze and improve website SEO using Google's lighthouse metrics
- Created a clean, simple, and inuitive dashboard with bulk and scheduled actions for user convenience
- Satisfied the requirements of multiple paying customers

Software Engineering Intern - Social27 Oct 2021 – Jan 2022

- Created a dynamic return on investment calculator with HTML and JavaScript that transferred vital customer data to multiple data stores (Google Sheets, Hubspot) through a multi-step pipeline
- Swiftly resolved many technical issues the company had been grappling with for months

Projects

CrossMaps | *NASA Space Hacks - Global Finalist* October 2024

- Collaborated with a team of 6 to create an innovative pipeline generating 3D interactive maps using vector and raster data
- Developed a visualization technique allowing users to easily view the relationships between multiple variables on the same realistic LIDAR generated terrain
- Global Finalists putting us in the top **40/15000 (0.3%)** of teams, competing with professional software engineers and data scientists! Won Best Use of Data for Space Hacks Seattle

Homelessness Resources Project | *Husky Coding Project* Oct 2024 – Present

- Collaborating with a team of 5 to design and create a full stack React Native app for iOS, web, and Android
- Working with Expo, NativeWind, Supabase, and Google Maps

Leadership

President, Technical Lead - CS and Google Developer Student Club 2021 - 2023

- Coordinated and hosted nationally broadcasted events on cloud computing an career preparation in **collaboration with Google**
- Lead and managed **500+ Members** and **100+ events** yearly