

# Samriddhi Sivakumar

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## Technologies

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**Languages:** Python, Java, C++, C#, SQL, TypeScript, JavaScript, HTML, CSS, Bash, Go, PHP

**Full Stack & Tools:** React, Next.js, SvelteKit, .NET Core, PostgreSQL, MongoDB, AWS, Azure, Docker, Git, Linux

**Data Science & AI:** PyTorch, TensorFlow, Pandas, OpenCV, Hugging Face, Spacy, D3.js, Matplotlib, Tableau, pyDICOM

## Education

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### University of Washington

Sept 2022 – June 2026

*Bachelor of Science in Computer Science - Data Science*

- **UW Academy (Robinson Center)**

- Joined University of Washington after completing 10th grade, demonstrating advanced academic abilities and dedication to pursuing higher education at an accelerated pace.

- **Awards:** Dean's List, Opportunity Scholar of Cohort 12 of the Baccalaureate Scholarship

## Experience

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### Software Engineer Intern

Bothell, WA

*Elementrailer*

Dec 2025 – Present

- Build the MVP of Elementrailer's fleet-management dashboard using **React** and **Next.js**, creating a library of **10+ reusable components** that accelerated UI development velocity.
- Establish a CI/CD pipeline via **GitHub Actions** and achieved **75% code coverage** by implementing a robust suite of Jest and React Testing Library unit tests, reducing deployment lead time by **60%**.
- Automate investor metric generation (miles towed, kWh regen), reducing manual reporting time by **90%**.

### Student Assistant - Application Development

Seattle, WA

*University of Washington - Information Technology*

Aug 2025 – Present

- Engineer and deploy **3+ new features** for an enterprise-level student application using **C#**, **.NET Core**, and **JavaScript**, improving functionality for a user base of over **50,000 students and staff**.
- Increase application reliability by authoring unit and integration tests that improved code coverage by **15%**, participating in daily peer code reviews to reduce bugs prior to deployment.
- Streamline the software development lifecycle within an **agile** team, utilizing CI/CD pipelines to automate builds, reducing manual intervention by **20%**.

### Coding Officer & Web Developer

Seattle, WA

*Web Impact*

Jan 2023 – Present

- Lead a team of **8 developers** on **4+ client projects**, implementing agile workflows that decreased average project delivery time by **25%**.
- Design and develop responsive websites for clients like SWECC and Bugis using **React** and **Figma**, driving a **30% increase** in user engagement and achieving a **95% client satisfaction rate**.
- Pioneer a new technical workshop series that trained **30+ members** in modern web development, resulting in a **40% increase** in participation in club coding events.

### AI and Software Research Intern

Seattle, WA

*University of Washington - Radiology Department*

Jun 2025 – Sept 2025

- Automated the imaging series selection process for a large-scale clinical study by developing custom **Python** and **pyDICOM** scripts, reducing manual data preparation time for AI researchers by over **80%**.
- Engineered a foundational data extraction pipeline, streamlining the analysis of over **1,000** sensitive DICOM patient records for an AI-driven CT screening project.
- Co-authored a research abstract, "Transforming Patient Care: Radiologist-Driven Consultations with Opportunistic CT Screening," awarded **Certificate of Merit** at the **RSNA 2025 Annual Meeting**.

### Software Developer

Seattle, WA

*Ignite Robotics*

May 2025 – Aug 2025

- Architected and deployed a full-stack digital waiver system using **React**, **Node.js**, and **MongoDB**, replacing paper-based workflows and reducing user check-in time by **40%**.
- Designed a secure admin dashboard with real-time analytics to manage over **500+** weekly active users, ensuring GDPR compliance for sensitive data.
- Integrated **RESTful APIs** and optimized database schemas to handle high-volume data ingestion during peak event hours, ensuring system scalability.