

# Quienten Miller

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## Experience

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### Full Stack Software Engineer Intern, Pluralsight

May 2024 – August 2024

- Improved search bar functionality by analyzing 4.1M+ search queries to implement a "Trending Searches" feature, increasing user engagement and content discovery through dynamic and relevant query suggestions.
- Designed the trending algorithm using the pandas library in Python to identify trending search queries by analyzing historical data, using simulations to refine accuracy and reliability.
- Contributed to feature development by breaking work into 22 Agile tasks to streamline implementation and iteration. Documented key design decisions in Confluence for team feedback.
- Collaborated cross-functionally with design and accessibility teams to enhance the overall user experience and ensure the final product was intuitive, responsive, and accessible across all devices.
- Practiced test-driven development, achieving 100% code coverage through unit and integration tests with Jest.
- Automated daily data operations by deploying AWS Lambda functions to populate PostgreSQL table daily.
- Technologies used: TypeScript, Node.js, Svelte, React, Jest, Python, PostgreSQL, AWS, Apache Kafka.

### Computer Science Course Facilitator, University of Washington

Jan 2024 – Present

- Facilitate weekly workshops across Discrete Mathematics and Object-Oriented Programming courses for a total of 87 students over 5 semesters, strengthening foundational and advanced computer science skills.
- Design and deliver interactive activities tailored to core curriculum topics, enhancing student comprehension of principles such as logical reasoning, data structures, algorithmic thinking, and software design patterns.

### Computer Science Tutor, University of Washington

April 2023 – Present

- Deliver personalized support to a diverse group of 4,790+ students in advanced computer science and mathematics courses, fostering strong understanding of complex concepts.
- Conducted over 300 in-depth tutoring sessions, utilizing tailored learning strategies to enhance technical proficiency and academic performance.
- Demonstrate strong problem-solving and communication skills by explaining intricate coding assignments, debugging strategies, and theoretical concepts in an approachable and actionable manner.

## Projects

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### Workshop Shuffler | TypeScript, React, React Router, TailwindCSS

quenten.dev/shuffle-workshop/

- Designed and developed a web application to streamline group shuffling for student-ran university computer science workshops, optimizing team assignments for over 15 student workshop leaders, reducing time to generate groups by 55%.

### Recipe Ready | JavaScript, React, Node.js, Express.js, Firebase, YouTube API

recipeready.quienten.dev

- Deployed a full-stack AI-powered web application that dynamically creates personalized cooking recipes based on the user's cooking background and provided ingredients.
- Integrated OpenAI's GPT API to generate step-by-step cooking instructions, improving recipe relevance based on user-provided ingredients and experience level. Additionally, serve YouTube videos to user based on recipe.

## Education

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### University of Washington – BS in Computer Science and Systems

June 2025

3.8 GPA – 1st Place, Puget Sound Programming Competition

## Skills

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**Languages:** JavaScript, TypeScript, Java, SQL, PostgreSQL, Python, C, Go, C#, R.

**Frameworks:** React, Svelte, Node.js, Express.js, Jest, Material-UI, TailwindCSS, Django.

**Developer Tools:** Git, Linux, Docker, Postman, AWS, Jira, VS Code.