Kyra Brown

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EDUCATION

Worcester Polytechnic Institute · Worcester, MA
Bachelor of Science in Computer Science, GPA 3.90/4.00 · *Aug. 2022 – May 2026*

Relevant Coursework: Object-Oriented Design, Algorithms, Foundations of Computer Science, Operating Systems, Software Engineering, Human-Computer Interaction, Mobile & Ubiquitous Computing, Intro to Artificial Intelligence

Honors: **Dean's List** (5 semesters), **Charles O. Thompson Scholar**, **Presidential Scholarship**

TECHNICAL SKILLS

Languages: Java, C, C#, JavaScript, TypeScript, HTML/CSS, C++, Python, Kotlin, SQL, Racket, Matlab, R
Frameworks & Libraries: React, Node.js, .NET, Web API
Developer Tools: Git, GitHub Copilot, Visual Studio, VS Code, Docker, IntelliJ, CLion, PyCharm
Cloud & Platforms: Microsoft Azure, AWS, Linux
Other Tools: Microsoft Office, Google Workspace, Adobe Creative Suite (Illustrator, Photoshop, InDesign)

EXPERIENCE

Software Engineering Intern · May 2025 – Aug. 2025
Microsoft · *Redmond, WA*
- Leveraged Azure Functions to scale in and out, enabling the transition of **12.5M+ token subscriptions** to Horizon, contributing to legacy revenue service decommissioning and $3.2M/year in Azure savings.
- Built a standalone AKS-hosted API to retrieve and validate financial records for migration.
- Streamed financial events through Event Hub to downstream stakeholders using batch publishing.
- Conducted end-to-end migration testing by leveraging production financial transactions.

Explore Intern · May 2024 – Aug. 2024
Microsoft · *Redmond, WA*
- Developed a scalable traffic manager to load balance and distribute IcM traffic across deployment regions.
- Utilized Azure Functions, CosmosDB, and Azure OpenAI Studio to deploy fine-tuned GPT-4o models and organized endpoints with PromptFlow.
- Achieved an **SLA of 99.99%** and a sub 10-minute processing for a load test of 350 IcM's per second.

Peer Learning Assistant · Aug. 2024 – Present
Worcester Polytechnic Institute, CS Department · *Worcester, MA*
- Provided academic support for Java, C, and Racket courses through grading, debugging help, and feedback.
- Ran labs and held office hours to provide one-on-one tutoring to reinforce programming concepts and algorithms.

PROJECTS

Digital Tools for Hawaiian Seed Gardens | *React, HTML/CSS, JavaScript* · Oct. 2024 – March 2025
- Created an interactive ArcGIS StoryMap, embedding custom maps and data layers to highlight rain gardens.
- Built a React application with Firebase database to monitor Hawaiian rain gardens via photo uploads.

Tables4U Restaurant Manager | *React, REST API, TypeScript, MySQL, AWS, Git* · Oct. 2024 – Dec. 2024
- Built a full-stack restaurant management system with React frontend (Tailwind), MySQL backend, and AWS Lambda functions deployed via API Gateway for scalable reservations.
- Supported multiple user roles and optimized data flow using MySQL Workbench and REST APIs.

CERTIFICATIONS

Microsoft Certified: Azure Fundamentals (AZ-900) · August 2025
Validates foundational knowledge of cloud services and Azure architecture.

ACTIVITIES

Parent Relations Chair, Phi Sigma Sigma Fraternity, WPI
Member, Women in Computer Science (WICS), WPI
Member, Society of Women Engineers (SWE), WPI