Brey Rivera

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Experience

Aegis Software Corporation June 2024 – Present

Software Engineer *February 2026 – Present*

- Build FactoryLogix WebOps, rewriting an MES WPF app in React and TypeScript across 2 releases
- Review React pull requests as a member of the code review team
- Ship features and fixes across React/TypeScript, C# on .NET Framework, and the Blazor FLX Anywhere app
- Partner with developers on other projects to debug issues across teams
- Implement panelized assembly workflows for WebOps and onboard 2 developers moving from maintenance
- Write xUnit and Jest tests and low-level designs in monthly sprints on a 6-person R&D team
- Define React/TypeScript and low-level design standards in the team AI playbook

Junior Software Engineer *July 2025 – February 2026*

- Built 3 core MES web workflows for workstation setup, build selection, and manufacturing step execution
- Migrated 8 manufacturing data collection workflows from WPF desktop to the web
- Created MobX state classes for the web app and React components/hooks for an internal npm library
- Developed C# REST APIs in a Windows service to move frontend logic to the backend

Junior Software Developer Intern *September 2024 – July 2025*

- Built a Blue/Green Azure AKS PoC using Bicep, Bash/PowerShell scripts, and a playbook, adopted in production

Software Development Intern *June 2024 – August 2024*

- Led high school interns to architect and deploy a SaaS monitoring dashboard (C#, Vue.js, SignalR, MongoDB)
- Wrote Kubernetes configurations to host it on Azure AKS with NGINX Ingress and Azure Container Registry

Optum June 2023 – August 2023

Data Engineer Intern

- Wrote Scala ETL scripts on Azure Databricks and Apache Spark to populate star schema tables

Arcadia University October 2021 – May 2024

IT Assistant / Student Worker Supervisor

- Answered ∼350 Zendesk tickets, re-imaged ∼75 machines, and provided classroom and event A/V support

Projects

TOPHAT | *TypeScript, React, Python, Docker* 2024 – 2025

- Open-source Topology Orchestration Platform with a node-based UI mapping digital topologies to physical connections
- Runs on Docker Compose with Cloudflare Tunnels; GitHub Actions builds Docker images on each release

Availy.v2 | *TypeScript, Cloudflare* September 2023

- Slack bot for Arcadia's IT Help Desk student workers to request time off and cover shifts; currently in active use

IdioSplash | *Cloudflare, AWS Lambda, API Gateway, SES, DynamoDB* October 2023

- Open-source serverless app on Cloudflare and AWS using Cisco Meraki Identity PSK & WPN for wireless authentication and per-user segmentation

Skills

Programming: C#, TypeScript, JavaScript, Python, Bash, PowerShell
Web & Testing: React, MobX, Blazor, .NET Framework, ASP.NET Core, REST APIs, HTML, CSS, xUnit, Jest
Cloud & DevOps: Azure (AKS, ACR), Bicep, GitHub Actions, Docker, Kubernetes, AWS (Lambda)
Data & Tools: SQL, NoSQL (MongoDB, DynamoDB), Linux, Windows, Git, Jira, Claude Code, GitHub Copilot

Education

Arcadia University May 2025

B.S. Computer Science & B.S. Data Science *GPA: 3.98 – Dean's Distinguished*

- Competed in ICPC & CCSC algorithmic programming contests; panelist for a faculty Data Privacy workshop

Certifications

Microsoft Certified: Azure Data Fundamentals, April 2023