

BREY RIVERA

Pennsylvania, United States | breyr2021@gmail.com | (267) 640-5522 | linkedin.com/in/breyrivera | breyr.dev

EDUCATION

Arcadia University

2021 – 2025

B.S. Data Science & B.S. Computer Science

GPA: 3.98 – Dean's Distinguished

- Competitor in ICPC & CCSC programming competitions
- Student panelist for faculty Data Privacy workshop

CERTIFICATIONS

Apache Spark Developer Associate (Scala) – Issued 07/23, (Expired)

Azure Data Fundamentals – Issued 04/23

AWS Certified Cloud Practitioner – Issued 07/22, (Expired)

MTA Software Development Fundamentals – Issued 06/16 (Expired)

SKILLS

Programming: C#, TypeScript, JavaScript, Python, Go, Java, SQL, Scala, PHP

Markup: HTML, CSS, Tailwind CSS, Bootstrap, \LaTeX

Tools & Technologies: React, ASP.NET Core, MobX, Docker, Git, GitHub, MongoDB, Redis, Kubernetes, Prometheus, AWS (S3, EC2, Lambda, DynamoDB, API Gateway), Azure (ADLSg2, AKS, Application Gateway, Front Door, Traffic Manager), Bicep, Bash, Jest, SvelteKit, Vue.js, jQuery, AJAX, Apache Spark, Databricks, Cloudflare, Confluence, WordPress, Weka, Jupyter Notebooks

EXPERIENCE

Software Engineer

February 2026 – Present

Aegis Software Corporation

- Deepening domain knowledge of a large enterprise codebase to contribute to bug fixes and feature work across the stack
- Supporting teammates by diagnosing and resolving bugs in both the React frontend and C# backend

Junior Software Engineer

July 2025 – February 2026

Aegis Software Corporation

- Collaborated on an MVP web redesign of a large enterprise WPF application using React and TypeScript
- Developed reusable custom hooks and MobX state management classes, contributing to an in-house React component library published as an internal NPM package
- Built and consumed C# REST APIs, migrating frontend business logic to the backend where appropriate
- Participated in pull request reviews to maintain code quality and share knowledge across the team

Junior Software Developer Intern

September 2024 – July 2025

Aegis Software Corporation

- Developed proof of concept for Blue/Green deployment strategy that is used in production today

Software Development Intern

June 2024 – August 2024

Aegis Software Corporation

- Led a team of high school interns to architect, develop, and successfully deploy a SaaS monitoring dashboard
- Mentored team members on agile methodologies and various technologies
- Architected and integrated key technologies including SignalR, DragonflyDB, and MongoDB
- Developed Kubernetes configurations for deploying the application within Azure AKS, involving NGINX Ingress and Azure Container Registry
- Collaborated with an adjacent team during their team lead's absence to ensure timely project completion

Advanced IT Assistant / Student Worker Supervisor

August 2022 – May 2024

Arcadia University

- Addressed campus-wide IT issues, including classroom technology support
- Trained and mentored Help Desk student workers in device management

- Installed and updated software tailored to user and department requirements
- Provided A/V support for events
- Created a Slack bot for student work efficiency

Data Engineer Intern

June 2023 – August 2023

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- Utilized Azure Databricks, Apache Spark, and Scala to create ETL scripts for star schema table population
- Led intern onboarding for the ETL team and oversaw intern-led ETL projects
- Attended daily scrum meetings for three distinct projects

Website Support Intern

April 2023 – May 2023

Arcadia University

- Improved SEO for ~350 pages on Arcadia.edu by adding meta descriptions and focus keyphrases
- Decreased image file sizes below 1 MB to improve site loading time

LRN Basic Tutor

August 2022 – May 2023

Arcadia University

- Peer mentor for freshmen at Arcadia University for several introductory computer science courses

Information Technology Intern

May 2022 – August 2022

Arcadia University

- Answered ~250 tickets through Zendesk regarding account, software, and hardware-related questions
- Re-imaged ~75 laptops and desktops
- Recorded inventory of hardware across campus

IT Assistant

October 2021 – May 2022

Arcadia University

- Answered ~100 tickets through Zendesk regarding password resets and various software-related questions

PROJECTS

TOPHAT | *TypeScript, React, Python, Docker*

2024 – 2025

- Open-source Topology Orchestration Platform that transforms digital network topologies into physical connections via a node-based UI
- Built for enterprise and educational environments, supporting network simulations, cybersecurity testing, and professional development
- Containerized with Docker Compose and supports secure external access via Cloudflare Tunnels with automated image builds on release

K8sInsight | *C#, Vue.js, DragonflyDB, MongoDB*

June 2024

- Monitoring solution for an Azure AKS cluster hosting a SaaS application, developed during summer internship at Aegis Industrial Software
- Provides real-time insights into critical metrics, incident reporting, and search capabilities to streamline customer support and operational efficiency

DPanel | *FastAPI, Redis, Go*

April 2024

- Lightweight Docker management interface for orchestrating containers, images, and compose files via a self or remotely hosted agent
- Deployed in a multi-container environment on a UCS with Cloudflare Zero-Trust Access

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

October 2023

- Open-source solution enabling enterprises to use Cisco Meraki's Identity PSK & WPN capabilities for wireless authentication and per-user network segmentation

Availy.v2 | *TypeScript, Cloudflare*

September 2023

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

stockWYSE | *Flask, Firebase, Finnhub.io*

March 2023

- Flask web app allowing users to create a stock watchlist and retrieve up-to-date news for each company