

# Brey Rivera

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## EDUCATION

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### **Arcadia University** — B.S. Data Science & B.S. Computer Science (2021-2025)

Current GPA: 3.98 - Dean's Distinguished

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

### **La Salle College High School** — High School Diploma (2017-2021)

GPA: 4.20 - Four-time honors recipient

- Member of programming team for FTC and FRC 2017-2021
- STEAM Event Night Organizer Fall 2020

## CERTIFICATIONS

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**Apache Spark Developer Associate (Scala)** — issued 07/23 - Expires 07/25

**Azure Data Fundamentals** — issued 04/23

**AWS Certified Cloud Practitioner** — issued 07/22 - Expires 07/25

**MTA Software Development Fundamentals** — issued 06/16 - Expired

## SKILLS

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

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

**Tools/Technologies:** Redis, MongoDB, ASP.NET Core, Docker, Kubernetes, Prometheus, AWS (S3, EC2, Lambda, DynamoDB, API Gateway), Azure (ADLSg2, AKS), Bash, Jest, SvelteKit, Vue.js, jQuery, AJAX, Apache Spark, Databricks, GitHub, Git, Cloudflare, Confluence, WordPress, Weka, Jupyter Notebooks

## EXPERIENCE

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### **Software Development Intern (Part-Time Continuation)**

*Aegis Industrial Software* September '24 - Present

- Currently developing a POC for Blue/Green deployment in Azure AKS.

### **Software Development Intern**

*Aegis Industrial Software* June '24 - August '24

- 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 for this project 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 completion of their project.

### **Advanced IT Assistant / Student Worker Supervisor**

*Arcadia University* August '22 - May '24

- 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**

*Optum* June '23 - Aug '23

- 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**

*Arcadia University* April '23 - May '23

- 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**

*Arcadia University* August '22 - May '23

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

### **Information Technology Intern**

*Arcadia University* May '22 - August '22

- 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

Arcadia University October '21 – May '22

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

## PROJECTS

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### **K8sinsight** – Summer Internship Project at Aegis Industrial Software (June '24)

K8sinsight is a monitoring solution developed to oversee an Azure AKS cluster hosting a SaaS application. My team and I built this project using C#, Vue.js, DragonflyDB, and MongoDB. The application provides real-time insights into critical metrics necessary for monitoring the SaaS solution. Additionally, it includes features such as incident reporting and search capabilities, streamlining customer support and enhancing operational efficiency.

### **DPanel** – Lightweight Docker Management Platform (April '24)

DPanel is a lightweight Docker management interface where you can orchestrate containers, images, and compose files easily with a self or remotely hosted agent. Built with FastAPI for the backend API and frontend serving, Redis powering its efficient publish/subscribe model, and Go to ensure high-performance execution. Tested, deployed, and made available on a UCS with a multi-container environment via Cloudflare Zero-Trust Access.

### **Jobtrackr v2.0** – Minimal Job Application Tracker (December '23)

Jobtrackr v2.0 is a significant upgrade over my original Job Application Tracker developed with Flask. Utilizing Next.js, Auth.js, NextUI, and Xata, this version offers enhanced functionality, allowing users to efficiently manage their job applications. Features include application stage tracking, filtering, and search capabilities, as well as individual application counters per stage.

### **IdioSplash** – Open-Source Meraki IPSK Solution for Wireless Networks (October '23)

Open-source solution enabling enterprises to use Cisco Meraki's Identity PSK & WPN capabilities for wireless authentication and network segmentation on a per-user level. Utilizes Cloudflare, AWS Lambda, API Gateway, SES, and DynamoDB.

### **Availy.v2** – Student Worker Shift Manager (September '23)

Slack bot developed using a TypeScript package, and hosted on Cloudflare, currently in use by the Arcadia University IT Help Desk student workers to request off and cover others' shifts.

### **stockWYSE** – Stock Watchlist with News Articles (March '23)

A Flask web app that allows users to create a watchlist of tickers and get up-to-date news for each company. Created with Firebase for authentication and Finnhub.io for stock information.

More projects can be found on my website.

## Professional References

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**Vitaly Ford** – Associate Professor, Arcadia University  
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**Yanxia Jia** – Associate Professor, Arcadia University  
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**Baiju Savithri** – Director Engineering, Optum  
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