# RIVA JAIN

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Looking for Summer 2027 internships - AI-focused Computer Science student bridging full-stack software engineering and product. Experienced in rapidly learning unfamiliar fields, owning ambiguous problems, and communication/presentation.

## EDUCATION

**VIRGINIA TECH,** College of Engineering — Blacksburg, VA
B.S. Computer Science | Expected Graduation: Spring 2028 | GPA: 3.86

**THOMAS JEFFERSON HS FOR SCIENCE AND TECH** | Graduation: 2024 | Weighted GPA: 4.39 — Alexandria, VA

## SKILLS

Python, Java, C++, C, C#, R, JavaScript, SQL, HTML/CSS, React, React Native, AWS, Docker, Git, Linux, REST APIs, Full-Stack Development, Agile, Requirements Analysis, AI/ML Pipelines, PyTorch, InfluxDB, Grafana, Figma, UI/UX, Prototyping, Flask, Clustering Analysis, Data Visualization, Machine Learning, ML Forecasting, Problem-solving, Communication

## EXPERIENCE

**WEX INC.** — Portland, ME
Software Engineering Intern — May-Aug 2026
- Designed, built, and deployed an end-to-end MCP server authentication gateway using Amazon Bedrock AgentCore, Amazon Cognito, Amazon CloudWatch, DynamoDB, Amazon PII Comprehend and AWS Lambda
- Evaluated authentication and routing architectures for MCP servers, translating system requirements into technical designs and communicating tradeoffs to engineering and executive leadership
- Built and deployed real-time deployment token and git commit tracking for a service status catalog with 500+ users

**INPHASE RESEARCH** — Fairfax, VA
Software Engineering Intern, ML and AI — May-Aug 2025
- Partnered with researchers to define requirements for real-time anomaly detection in radio spectral data; identified methodological gaps, advocated for and developed a new ML pipeline, and improved accuracy by 20%+
- Implemented image anomaly detection and automated workflows for analyzing environmental impacts on radio signals
- Built InfluxDB/Grafana dashboards, custom UIs, and alerting systems, reducing processing lag to less than 0.3 seconds

**ARCHIMEDES DESIGN TEAM** — Blacksburg, VA
Infinitum Subteam Research Programmer, Web Development Team, Advisor — Sep 2024-May 2026
- Collaborated with faculty, medical professionals, and epilepsy patients to develop a ML-based seizure prediction research platform using EEG/ECG data and a React Native mobile application
- Translated clinical needs into technical requirements, conducted literature reviews, led front-end and machine learning development, and presented to 60+ students monthly, faculty, and conference audiences; designed user flows and interfaces in Figma while balancing usability, patient needs, and engineering constraints; elected to advise next cohort

**JOHNS HOPKINS UNIVERSITY APPLIED PHYSICS LABORATORY (APL)** — Laurel, MD
Data Science/Computing (QLN) ASPIRE Intern — Jun-Aug 2022, Jun-Aug 2023
- Modeled opioid overdose trends using clustering, regression, and random forests; findings presented to state government; developed ML models and visualizations linking bat activity to Ebola and Nipah Virus to predict outbreaks; delivered proof of concept to client; selected for lab-wide research conference twice

## RESEARCH/AFFILIATIONS

**DATABRIDGE LAB** | Collaborated with biochemists to translate scientific workflows into software requirements, developing GUI solutions and presenting data-driven recommendations to research stakeholders; data consulting lab

**WASP LAB** | Fine-tuned LLMs to reduce racial bias in LLM-based university admissions pipelines

**AFFILIATIONS** | Calhoun Scholar and Discovery Grantee, Honors College; Member, Society of Women Engineers and Rewriting the Code; Member, Alpha Omega Epsilon; Attendee, Grace Hopper Conference, PyTorch Conference; Photographer, Academy of Integrated Sciences; birdwatcher, guitar player, avid reader, zine maker, and theater nerd

## PROJECTS

INTRST | Hackathon prize winner; developed an agentic AI financial advisory workflow using LangChain and Gemini

SKYE | Browser tab context extension; scrapes data from open tabs, dynamically suggests actions with MCP integrations