Blake Marterella

marterella.com | 703-314-3044 | blake@marterella.com | linkedin.com/in/marterella

EDUCATION

Virginia Tech — August 2021 – May 2025
Bachelor of Science: Computer Science — *Blacksburg, VA*

RELEVANT EXPERIENCE

Audience Genomics — January 2025 – April 2025
AI Solutions Architect, — *Remote*
- Developed ML model with SciKit and Pandas to predict customer churn with 77% accuracy from raw user activity logs
- Data analysis of 8-months of customer demo transcripts to create 200 FAQs and train ZoHo AI Chatbot
- Built and deployed a white-labeled webinar series and launched a Zoho CRM campaign to track engagement

Yext — May 2024 – August 2024
Software Engineering Intern — *Washington D.C.*
- Created internal testing and code coverage utility to increase code quality and increase testing efficiency by 82%
- Pioneered and documented new code pattern for 5 RPC endpoints to generate organic insights from customer reviews
- Implemented Apache Airflow DAG for multi-cloud data sync from MySQL to Snowflake across AWS and Azure
- Created new UI for clients to view customer feedback using ReactJS and create new themes using RPC endpoints
- Optimized SFTP review invitation generation, reduced time to generate 1,000 invitations by 8.57 seconds, saving 9.5 hours
- Full-stack development including testing, deploying, and developing code for frontend, RPC endpoints, and database

Recursion Tech LLC — May 2023 – Present
Founder — *Haymarket, VA*
- Founded IT consulting firm specializing in full-stack product development, working with 2 partners and 3 clients
- Developed e-commerce platform in AngularJS to serve 100+ customers and drive $5,000 in sales using StripeCLI
- Oversaw products using Jira and Agile methodology, including daily standups with partners, creating 400+ user stories, MoSCoW feature prioritization, technical architecture diagrams, database schema, and Figma mockups
- Designed an application to aggregate, clean, and format data from B2B databases, generating 1,100 sales prospects/minute

Docsnap — May 2023 – May 2024
Product Development Engineering Intern — *Remote*
- Optimized backend to decrease AWS monthly costs by 55% and save 1.7 GB SQL storage by implementing new API
- Documented 90+ endpoints in Postman, refactored Xamarin app to use Swift, and increased performance by 72%
- Generated test data, use-cases, and delivered product demonstrations for investor meetings to close $100,000 in funding
- Worked with C-suite to develop 6-month technical roadmap to increase security, reduce cost, and streamline GTM strategy

Stratizant — August 2022 – January 2023
Software Engineering Intern, Full-Stack Software Engineer — *Remote*
- Designed 3 phase migration plan to revitalize legacy project and created 100+ epics/stories to execute migration
- Refactored legacy AngularJS codebase to improve SaaS' Google Lighthouse Score by 107% with technical documentation
- Improved operation efficiency by implementing Terraform to automate GCP deployment and management
- Emphasized test-driven development by writing frontend tests (CypressJS and Jest) and backend tests, ran in Bitbucket CI/CD pipeline
- Implemented and automated weekly security scans to prevent 15 high-severity vulnerabilities in client-facing application

LEADERSHIP EXPERIENCE

CS Careers @ VT — January 2023 – May 2025
Vice President, Founder — *Blacksburg, VA*
- Cultivated a vibrant professional community of 1,200+ VT students, 20+ alumni, and 10+ industry partners
- Organized 40 events, workshops, and speakers over 5 semesters, directly serving 700+ students professional development resources
- Developed best-practices for internal operations, including semester-long roadmaps and OKRs, for 13 executive officers

Triangle Fraternity at Virginia Tech — June 2022 – August 2023
Founding Historian, Lead Developer — *Blacksburg, VA*
- Developed and documented Flask RestAPI, containerized on Google Cloud Run, for information on 70+ members
- Lead team of 5 developers in creating a SaaS platform to centralize fraternity operations and improve communication

CERTIFICATIONS

AWS Cloud Practitioner, Amazon Web Services — *January 2022*
Database Specialist, C.S.C., Northern Virginia Community College — *June 2021*

SKILLS

Programming: Java, Javascript (Typescript, Express, Angular, React), Python (Flask, Numpy, Pandas), SQL, C, Swift
Devops: GCP, AWS, Docker, Github Actions, Bitbucket Pipeline, Terraform, TeamCity, Nomad, Sentry
Misc: Firebase, Snowflake, MySQL, Postgres, Stripe CLI, TailwindCSS, Apache Airflow, gRPC, SQLAlchemy, PrismORM, Jira