Blake Marterella

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EDUCATION

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

RELEVANT EXPERIENCE

Yext — May 2024 – August 2024
Software Engineering Intern — *Washington D.C.*
- Created testing and code coverage utlity for employees 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
- Used React and RPCs to create a new UI for customers to create review themes and view insights
- 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

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 Swft, and increase performance by 72%
- Generated test data, use=cases, and delivered product demonstrations for investor mettings to close $100,000 in funding
- Worked alongside the C-suite to develop 6-month technical roadmap to increase security, reduce cost, and streamline GTM strategy

Recursion Tech LLC — May 2023 – Present
Founder and CEO — *Haymarket, VA*
- Founded IT consulting firm specializing in full-stack product development, working with 2 partners and 3 clients.
- Developed scalable e-commerce platform to serve 100+ customers, drive over $5,000 in sales, and automate order processing.
- Developed 6-stage design process to ensure client satisfaction and streamline software development lifecycle.

Stratizant — August 2022 – January 2023
Software Engineering Intern, Full-Stack Software Engineer — *Remote*
- Refactored and improved legacy code to improve SaaS' Google Lighthouse Score by 107%
- Improved operation efficiency by implementing Terraform to automate GCP deployment and management
- Designed 3 phase migration plan to revitalize legacy project and created 100+ epics/stories to execute migration
- Emphaized test driven development by writing 20+ frontend and backend tests, ran in Bitbucket CI/CD pipeline
- Implemented and automated weekly vulneravility scans to prevent 15 high-severity vulnerabilities in client-facing application

Safeguard Cyber — March 2020 – June 2020
Data and Analytics Intern — *Remote*
- Identified outdated processes while working for the vice president of gloval accounts and learned about the sales process.
- Designed an application to aggregate, clean, and format data from B2B databases, generating 1,100 sales prospects/minute

LEADERSHIP EXPERIENCE

CS Careers @ VT — January 2023 – Present
Vice President — *Blacksburg, VA*
- Cultivated a vibrant professional community of 1,000+ VT students, 20+ alumni, and 10+ recruiters
- Led a team of 13 officers and collaborated with CS Department to organize 8+ events, workshops, and speakers per semester
- Fostered industry connections to contibute to our goal of 51% of non-graduating members obtaining internships.
- Developed best-practices for internal operations, including semester-long roadmaps, organization system, and OKRs

Triangle Fraternity at Virginia Tech — June 2022 – August 2023
Founding Historian and Lead Developer — *Blacksburg, VA*
- Developed RESTful API with Flask and Firestore to store information on 62 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 & INTERESTS

Programming: Java, Javascript (Typescript, Node, Angular, React), Python, SQL, Terraform, C, Swift

Software: Apache Airflow, gRPC, Flask, Snowflake, MySQL, Stripe CLI, TailwindCSS

Devops: GCP, AWS, Firebase, Docker, CI/CD Pipelines, TeamCity, Nomad, Sentry