

TRENT BALLARD

SOFTWARE ENGINEER

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EDUCATION

Masters of Computer Science (AI), University of Virginia

8/2022-12/2022 (Accelerated Coursework)

GPA: 3.9/4.0

Coursework: Adv AI, Adv ML, Adv Algorithms, , Reinforcement Learning, Geometry of Data, Dynamical Systems, Software Analysis, HCI, Autonomous Robots, Data Analytics

Bachelor of Science, University of Virginia

8/2018-5/2022

Minor: Engineering Business

GPA: 3.8/4.0

Coursework: Algorithms, OS, ML, AI, Cloud, Software Dev Techniques, Cybersecurity, Data Structures, Database Systems, Computer Architecture

EXPERIENCE

Invisible Technologies, Senior Software Engineer, 11/2024-present

- Planned, architected, and developed API Gateway managing 200+ endpoints with 10M+ req/month
- In 8 weeks, created a Remote Desktop solution used by 5000+ users. Deployed as API w/ full CI/CD, multi-tenate, self-hostable. Lead to \$10M+ net new business

Capital One, Senior Software Engineer, 7/2024-11/2024

- Created a generic high-TPS performance testing tool, adopted by Capital One
- Led the migration of multiple mission-critical applications to serverless with zero production incidents, enhancing scalability and reducing infra costs

Capital One, Associate Software Engineer, 2/2023-7/2024

- Optimized & maintained a mission-critical API handling 12k+ RPS, achieving 99.9999% uptime
- Reduced operational costs by \$100k+ annually with code & AWS optimizations
- Implemented unit, integration, contract, and end-to-end testing

Capital One, Software Engineering Intern, 6/2022-8/2022 & 6/2022-8/2022

- Developed a Python-based chatbot to analyze & predict infrastructure failures
- Developed multiple features in React.js for a self-service credit policy authoring web app. Features deployed to production

PERSONAL PROJECTS

Profyx - E-commerce Product Analysis (Python Flask, AWS, React/Redux)

Developed backend with Python Flask that uses AI to return over 100 data points to deliver comprehensive profitability assessments for e-commerce products. Deployed to AWS with full CI/CD. Developed Chrome extension dashboard with TS, React+Redux, Tailwind, Storybook, Webpack, Recharts. 50+ users.

SharpBet - Sports Betting Model (Python, Selenium)

Used to turn 10k internship money into 60k in 8 months. It scrapes, aggregates, & analyzes data from multiple sportsbooks, finding profitable discrepancies through statistics, probability, & risk analysis. 10+ users

TECHNICAL SKILLS

Coding: Python, TypeScript, React, Java, FastAPI, Flask, scikit-learn, TensorFlow, Redux, Next, Tailwind

DevOps: AWS, Postgres, Dynamo, Redis, Docker, GitHub, Jest, JUnit, Splunk, Maven, k6, Postman, webpack, kafka, Playwright

HONORS & AWARDS

AWS Associate Solutions Architect, November 2023

CSSE Secure Coding Certification, July 2022

Eagle Award, National Boy Scouts of America, August 2017

Computer Science Student of the Year Award, May 2018