TRENT BALLARD
SOFTWARE ENGINEERING

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EDUCATION

Masters of Computer Science, *University of Virginia*, Charlottesville, Va
8/2022-12/2022
Coursework: Algorithms, ML, Reinforcement Learning, Dynamical Systems, Software Analysis, HCI, Autonomous Robots, Data Analytics

Bachelor of Science, *University of Virginia*, Charlottesville, Va
8/2018-5/2022
Major: B.S. Computer Science   Minor: Engineering Business
Coursework: Algorithms, ML, AI, Cloud, Cybersecurity, Data Structures

EXPERIENCE

Capital One, Associate Software Engineer, 2/2023-present
- Optimized & maintained API with 12k+ TPS, enhancing performance
- Cut costs by $100k+ annually with code & AWS design optimizations
- Created generic high-TPS perf testing tool, adopted by Capital One

Capital One, Software Engineering Intern, 6/2022-8/2022
- Created bot in Python to analyze & predict infrastructure failures using Splunk logs; bot deployed to production
- Leveraged tools such as Lambda, Cloudwatch, unittest, Splunk

Capital One, Software Engineering Intern, 6/2021-8/2021
- Developed multiple features in React.js for a self-service credit policy authoring web app. Features deployed to production
- Leveraged tools such as Elastisearch, DynamoDB, Redux, JEST

Verisign, Software Development Intern, 5/2020-7/2020
- Created chatbot with Java Spring framework on scrum team & deployed in production; demonstrated bot to senior executives

PERSONAL PROJECTS

Profyx - E-commerce Product Analysis (Python Flask, AWS, React/Redux)
Developed an AI Python Flask API, returning over 100 data points to deliver comprehensive profitability assessments for e-commerce products. Deployed to AWS with full CI/CD. Created Chrome extension with TS, React+Redux, Tailwind, Storybook, Webpack, Recharts. 50+ users.

SharpBet - **Sports Betting Model (Python, Selenium)**
Model scrapes, aggregates, & analyzes data from multiple sportsbooks, finding profitable discrepancies through statistic, probability, & risk-analysis. 10+ users

TECHNICAL SKILLS

Coding: Python, TypeScript, React, Java, Spring, 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 Architech, 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