Britt Evans

EXPERIENCE

Research Engineer, Biocore
Charlottesville, VA — April 2020-present

- Assist with software development and machine learning for the Digital Athlete program.

Software Engineer/Technical Fellow, CCRI
Charlottesville, VA — May 2007-April 2020

- Worked with small teams to develop software systems from conception to operational deployment that utilized data mining techniques for the Department of Defense
- Led the development effort to ingest, normalize, and process hundreds of millions of records per day from disparate data sources in a secure AWS-based environment to build a global air domain awareness tool
- Worked closely with customers and end users to gather requirements and iterate on prototypes to tailor solutions to their needs
- Developed and applied machine learning techniques to build classification models that significantly reduced analyst work times and improved productivity
- Implemented, deployed, maintained, and optimized software updates for high profile operational systems in secure AWS environments while maintaining uptime over 99.8%
- Secured and scaled web servers and databases using role-based access control
- Coordinated development efforts across UI and backend software teams
- Presented complex technical solutions to non-technical customers and end users in ways that were understandable and led to increased confidence in our product
- Produced metrics and reports to help with system monitoring and evaluating user behavior
- Developed high-performance parallel query solutions to optimize MySQL throughput
- Led the technical writing effort for a successful proposal that resulted in a significant multi-year contract

Research Assistant, University of Virginia
Charlottesville, VA — 2003-2007

- Collaborated with the National Weather Service's Meteorological Development Laboratory to produce a Master's thesis on creating probabilistic forecasts for the National Digital Forecast Database.

EDUCATION

University of Virginia
MS Systems Engineering 2007, BS Systems Engineering 2006

- Coursework in data mining, software development, pattern recognition, simulation
- Teaching Assistant for Probability and Statistics
- Shannon Award Recipient (highest undergraduate GPA in the School of Engineering and Applied Sciences)

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SKILLS

- Proficient with R, Python, Scala, Java, C++, git, maven, unix shell tools
- Built operational systems in the AWS environment with open-source tools like Storm, Kafka, Hadoop, Accumulo, Geomesa, Geoserver, Graphite, Grafana, httpd
- Database design and query optimization with PostgreSQL and MySQL