

Contact

www.linkedin.com/in/ganeshannan
(LinkedIn)

Top Skills

Leadership
Linux
JavaScript

Languages

English (Native or Bilingual)
French (Limited Working)

Certifications

Lean Technology Strategy: Building
High-Performing Teams
SSCP Cert Prep: 5 Cryptography
Agile Software Development

Honors-Awards

Luther and Alice Hamlett
Undergraduate Research Grant

Ganesh Annan

Senior Software Architect at Digital Bazaar
Washington DC-Baltimore Area

Summary

Translating dreams and ideas into systems woven by code.

Experience

Digital Bazaar, Inc.
8 years 6 months

Senior Software Architect
August 2020 - Present (4 years 6 months)

- Serve as the liaison between non-technical and technical stakeholders in multiple market verticals: Finance, Global Trade, Supply Chain, Education, etc.
- Align product development to meet the needs of customers
- Translate business needs into solutions based on industry expertise

Senior Software Engineer
June 2019 - Present (5 years 8 months)
Blacksburg, Virginia, USA

- Design and develop web applications using MongoDB, NodeJS, and VueJS
- Lead engineering team in the development of Proof of Concepts with government and Fortune 500 organizations
- Apply emerging global standards in blockchain, identity verification, and entity-relationship into products increase operational efficiency

Software Engineer
August 2016 - May 2019 (2 years 10 months)
Blacksburg, Virginia, USA

- Developed end-to-end demos and product features using NodeJS and AngularJS
- Improved legacy internal cloud infrastructure by increasing redundancy for OpenStack

Anaanu.com
Founder
July 2016 - Present (8 years 7 months)

- Website deployed to three universities that allows students to make data-driven decisions when choosing classes
- Deployed web application to virtual machines in the cloud provided by Digital Ocean and AWS. Technologies used include but are not limited to Docker, MongoDB, NodeJS and NGINX
- Created custom ETL tools in Python in order to normalize data from different universities

Virginia Tech

10 months

Research Assistant

January 2018 - May 2018 (5 months)

Blacksburg, Virginia, USA

Vibrations, Adaptive Structures and Testing Laboratory

Sensor Data Fusion used in Occupancy Modeling for Efficiency in Smart Buildings:

The research investigates fusing sensor data from sensors in HVAC systems and accelerometers placed in Goodwin Hall at Virginia Tech to create an occupancy model that can be used to make buildings more energy efficient. Designed and ran two experiments using various data acquisition systems. Quickly learned Mechanical Engineering principles such as analyzing Power Spectral Densities and leveraging bandpass filters to properly extract pertinent features from raw acceleration data. Created a data-driven model using machine learning to perform classification on "level of activity" in a room. The research was performed in collaboration with three Virginia Tech Professors: Dr. Rodrigo Sarlo, Dr. Serkan Gugercin and Dr. Pablo Tarazaga. Additional assistance from Dr. Sriram Malladi.

Senior Design - Capstone

August 2017 - December 2017 (5 months)

Blacksburg, Virginia, USA

Partnered with a local start-up, Ozmo, to leverage topic modeling on Mobile Forum Sites

- Developed an extensible program using beautifulsoup and selenium in python to scrape data from popular forum sites and formatted it to a strict data format
- Taught team how to use GIT as our version control system and managed integration of code

- Worked with team to develop "buckets" or "topics" to properly classify types of questions being asked on forums
- Regularly met with the industry partner, Ozmo, to ensure the team was successfully achieving goals

IBM

Software Developer Intern, Watson Data Platform

June 2017 - August 2017 (3 months)

San Francisco Bay Area

- Designed and engineered a dependency management system for IBM services using Express, NodeJS, and Apache Kafka that reveals the relationships between cloud services and provided real time alerts for teams if a dependent service is down
- Designed, lead, and managed the engineering of a web application between a local intern team and a remote full-time team in China to create a self-service system that eliminated bottlenecks between developers and admins using NodeJS and React
- Developed a micro-service in Golang that monitored the health of pods in Kubernetes to ensure successful deployments

Virginia Tech

Learning Assistant, Department of Physics

August 2016 - December 2016 (5 months)

Blacksburg, Virginia, USA

Worked with an instructor to support the teaching and learning goals for 116 students in a calculus based Physics course

Altamira Technologies Corporation

Software Engineer Intern

June 2016 - August 2016 (3 months)

McLean, Virginia, USA

- Front End Development with AngularJS to create a wizard based approach prototype for a government customer
- Improving testing infrastructure by using Docker Containers to virtualize different subsystems in order to create staging environments that can be started and stopped quickly for integration testing. Created Docker registry in OpenStack to provide a way for developers to share images
- Configured LDAP over TLS with OS X Server on a Mac Mini to communicate with a Mac and Linux client

Tinubu Square
Software Developer Intern
May 2015 - July 2015 (3 months)
Paris, France

- Developed a monitoring system that compiled information from Jenkins, JIRA, and the statuses of production and development servers into a single web application with a partner using HTML, CSS, Google Apps Script, and JavaScript

Education

Virginia Polytechnic Institute and State University
Bachelor of Science - BS, Computational Modeling & Data Analytics

Virginia Tech
Minor, Computer Science

Virginia Tech
Minor, Mathematics