J A Y A N T H (J A Y)   D E V A N A T H A N

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EDUCATION

Georgia Institute of Technology, Atlanta, Georgia   **August 2014 – May 2018**

GPA: 3.96

Candidate for Bachelor of Science in Computer Science

Enrolled in the Steven A. Denning Technology and Management Program, Class of 2018

- Completed Machine Learning (CS 4641), Natural Language (CS 4650), and Computer Networking 1 (CS 3251)
  - Implemented a Deep Transition Dependency Parser in PyTorch and Viterbi sequence labeling in Python
  - Implemented linear regression and cross-fold validation using SPECT Heart Data in Python

Thomas Jefferson High School for Science and Technology, Alexandria, Virginia

- Took AP Computer Science, Parallel Computing, Artificial Intelligence, and Computer Systems Research

TECHNICAL SKILLS

Technical Languages: C++, Java, Python, JavaScript (React, Node, D3, Angular), Hack (PHP), Haskell, Bash, C, SQL
Software/Software Tools: Docker, Kubernetes, Ansible, Vsphere, Postman, IntelliJ, XCode, Maven, Vim
Revision Control Systems: Git / Github, Apache Subversion
Other Skills: Redux, OOP, Functional Programming, J2EE, REST services

WORK EXPERIENCE

Facebook   **May 2017 – August 2017**

Security Engineering Intern – Menlo Park, California

- Developed features for an internal security tool in JavaScript, Hack (PHP), and C++
- Incorporated photo and video hashing algorithms for reporting media on Facebook platforms
- Deployed backend services in C++ for data filtering and reporting

IBM   **June 2016 – August 2016**

Security Systems Software Development Intern – Atlanta, Georgia

- Developed graph code in IBM's Watson for Security application that linked user-accessed IP's to potential threats
- Utilized Ansible, Kubernetes, and Docker to configure machines and schedule migration jobs for 130 GB of data

Automatic Data Processing, Inc. (ADP)   **June 2015 – August 2015**

Software Performance Intern – Alpharetta, Georgia

- Migrated ADP's Workforce Now Platform from Websphere Application Server (WAS) 7.0 to WAS 8.0 Liberty Profile
- Utilized Hive and Spark to read data from a transactional database to a Hadoop Data store

Aspiring Scientists Summer Internship Program   **June 2012 - August 2014**

Research Intern – Fairfax, Virginia

- Developed a k-NN classifier for muscle ultrasound movement with 90% accuracy using image processing
- Co-authored a paper published in IEEE Scientific Journal with Dr. Siddhartha Sikdar

PROJECTS

Duly Noted   **First Place, Hack Duke Education Track: Web Application**

- Developed a JavaScript application that transcribed lecture speech and produced organized notes in real-time
- Utilized Google Web Speech API and JQuery for speech transcription and organization of text based on keywords

Co-Pilot   **Honorable Mention, Hack Emory: Web Application**

- Developed a JavaScript application that scheduled Google Calendar appointments by reading group messages
- Utilized pos-js for parsing sentences, Google Calendar API for scheduling, and Slack API for group messaging

LEADERSHIP

Teaching Assistant, Object-Oriented Programming (CS 1331)   **August 2015 – December 2015**

- Taught students OOP concepts through weekly 90-minute recitations and office hours