John Michael Kovachi

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Education

Bachelor of Science, Computer Science (in progress) | University of Georgia

- Expected Graduation Date: December 2018
- GPA: **3.94**
- Studied abroad at the University of Oxford, Spring 2017

Professional Experience

Amazon.com Seattle, Washington May 2018-Present

Software Development Engineering Intern | Amazon Smart Home

- Designed and built internal web application using Java Spring MVC for the Amazon Dash product managers
- Designed APIs for microservices using Coral, Amazon's next-generation service framework
- Experienced rigorous code review process with senior engineers, ensuring quality, professional code
- Created unit testing and integration testing with JUnit
- Used Hibernate object-relational mapping framework to interact with Oracle SQL database
- Used build pipelines and Git to manage and deploy code changes to production application
- Guided under Agile/Scrum development process, pushed over 11,000 lines of code to production

Redhorse Corporation Rosslyn, Virginia June 2017-May 2018

Software Engineering Intern

- Designed and developed a full-stack web application tracking system using Python, Django, and IBM's Bluemix/Watson platform that utilized natural language processing (NLP) and machine learning to analyze and extract relevant metadata from resumes based on a job skill keyword search
- Guided under Agile/Scrum development process
- Utilized RESTful APIs such as Microsoft Graph to extract relevant employee data
- Implemented an OAuth 2.0 login system using Graph API
- Aided with the development and maintenance of a NoSQL ElasticSearch database
- Interned in summer, worked part-time for 30 hrs/wk during school year (part-time projects listed below)

Technologies

- Languages: Java, C++, Python, Javascript
- Web Frameworks: Spring MVC, Django, Flask, Node.js (Express)
- Front-End/Mobile: React, React Native, HTML5, CSS3, JQuery, Bootstrap
- Databases: MySQL, MongoDB, ElasticSearch, Hibernate
- NLP/Machine Learning: Scikit-learn, Numpy, NLTK

Projects

- **Stock Market Sentiment Analysis** (Spring 2018 | Personal)
  - Used Naive Bayes and SVM algorithms and NLTK, Scikit-learn, Numpy and MongoDB to perform sentiment analysis on financial news articles and make stock price movement predictions, achieved f-score of .56. (paper) (github)
- **Scholarly text extraction** (Spring 2018 | Redhorse Corporation)
  - Created a full-stack Node.js/Express application that supported file uploads of hundreds of scholarly PDF articles at a time. Utilized GROBID API to parse and index extracted text/metadata into NoSQL database.
  - Cut manual data entry time of 5 minutes per document to 2 seconds per document upload.
- **GIS-based event planner** (Spring 2018 | Personal)
  - Created a mobile application using React Native (front-end) and Node.js (back-end) that keeps track of plans with friends and organizes them in a map-based (Google Maps API) interface. (github)
- **Custom Regex parser** (Fall 2017 | Redhorse Corporation)
  - Created custom parsing algorithm to parse and tabulate data from unstructured text of thousands of pages of government PDF documents using Python. Eliminated need for any manual data entry for business.
- **UNIX Shell commands** (Spring 2017 | Personal)
  - Recreated famous Unix commands such as ln, ls, mkdir, head, tail, cksum, and more using C++ and Unix system calls. (github)