John Michael Kovachi

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EDUCATION

Bachelor of Science, Computer Science | University of Georgia
- Graduation Date: December 2018
- GPA: **3.95 | Summa Cum Laude**
- Awarded Hollingsworth Award for Undergraduate Excellence in Mathematics, Fall 2018
- Studied abroad at the University of Oxford, Spring 2017

PROFESSIONAL EXPERIENCE

Amazon Web Services New York, New York   May 2019-Present

Software Development Engineer | AWS Elastic MapReduce (AWS EMR)
- Designed, coded, and deployed customer facing web service APIs using Java, Coral, and Spring
- Implemented IMDSv2 for EMR cluster EC2 instances as part of mandatory security compliance campaign
- Created unit testing and integration testing with JUnit in order to build continuous deployment pipelines
- Audited customer-facing web service components for yearly Operational Readiness Review
- Maintained EMR's distributed architecture as on-call engineer
- Experienced rigorous code review process with senior engineers, ensuring high-quality code

Amazon.com Seattle, Washington   May 2018-August 2018

Software Development Engineering Intern | Amazon Devices
- 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
- Used Hibernate object-relational mapping framework to interact with Oracle SQL database
- Guided under Agile/Scrum development process, pushed over 11,000 lines of code to production

Redhorse Corporation Rosslyn, Virginia   June 2017-May 2018

Software Developer
- Designed and developed a full-stack web application tracking system using Python, Django, and IBM's Bluemix/Watson machine learning 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 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

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**
  - 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. (paper) (github)
- **UNIX Shell commands**
  - Recreated famous Unix commands such as ln, ls, mkdir, head, tail, cksum, and more using C++ and Unix system calls. (github)
- **E-Commerce Bookstore**
  - A fully-featured E-Commerce site built using Java, Spring Boot, JDBC, and MySQL. (github)