JESSE BARTOLA

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EDUCATION

Computer Science (B.S.)   3.9 GPA
University of Massachusetts Amherst   *May 2019*

Notable Coursework
Programming Methodology, Computer Systems Principles, Algorithm Design,
Reasoning Under Uncertainty

TECHNICAL SKILLS

Proficient: Java, Scala, Python, Javascript, HTML
Experience: CSS/SASS, iOS (Swift), MongoDB, SQL

Certifications: C#, Microsoft Technology Associate (MTA)

JOB EXPERIENCE

Teaching Assistant   University of Massachusetts   *9/16 - Present*
- Oversaw the curriculum and administration for the Programming Methodology course
- Collaborated with course instructors in teaching concepts derived from the functional programming paradigm using Scala
- Responsible for orchestrating class discussion sections and holding weekly office hours

Lead Platform Engineer   TxtAdvice LLC   *6/15 - 11/15*
- Participated in full-stack development of a web application providing users with realtime fashion advice from professionally trained stylists
- Synthesized and maintained an SMS/MMS interface using React.js, Twilio's API, and Python's Flask web framework. Configured PostgreSQL to collect and analyze user usage data

INDEPENDENT PROJECTS

Medicus   *10/16*
- Led a team of students in engineering an iOS application which employed machine learning and image recognition to accurately diagnosis various skin conditions within a predetermined confidence interval
- Developed unique probabilistic models through the use of Clarifai's image recognition API to accommodate the identification of common skin ailments

Wave Calendar   *1/16 - 7/16*
- Constructed a full-scale social networking website allowing users to locate nearby parties
- Introduced project-specific MVC design patterns through the use of AngularJS to establish a dynamic user interface

Basic Chat   11/15 - 2/16
- Implemented an instant messaging infrastructure providing users with a seamless online medium of communication with little to no latency
- Harnessed socket programming and MongoDB to ensure fast and reliable performance

HONORS/AWARDS

3rd Place   2015 Hack UMASS
Worked with a team of students in assembling an iOS application through rapid prototyping, utilizing Arduino sensors to monitor multiple sclerosis symptoms in patients

2nd Place   Computer Programming, 2015 NJ SkillsUSA State Championships
Competed against 200+ programmers from New Jersey in Java applet development