Corianna Jacoby

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EDUCATION

Tufts University, Medford MA

Bachelor of Science in Computer Science, May 2017

GPA: 3.67, Magna Cum Laude, Dean's List

EXPERIENCE

Languages: Python, C, C++, mL, Erlang, JavaScript, Bash, Lisp, Scheme

Platforms and Technologies: Linux/Unix, Github, Docker, Celery, Minio, MongoDB, RabbitMQ, Qt

International Business Machines, San Jose, CA

Software Engineer Band 06 Aug 2017 – Dec 2018, *Band 07* Dec 2018 – Present

Business Automated Content Analyzer May 2018 – Present

Cloud-based content analysis and data extraction solution for scanned documents

- Developed PoC for scheduling architecture change and subsequent code base migration
- Developed automated testing framework and backend unit tests
- Identified and fixed various defects in backend processing
- Reviewed and tested other developers' changes
- Hardened and cleaned code in preparation for Version 1.0 General Release

Datacap, Aug 2017 – Present

On-prem tool for position-based data extraction from scanned documents

- Worked with customers to address collaborations and defects
- Evaluated performance metrics of data extraction tool

Allen Institute for Brain Science, Seattle, WA

Software Engineering Intern for Modeling, Analysis, and Theory Team, Jun – Aug 2016

- Improved time complexity of open source Vaa3D consensus mapping plug-in
- Generated python scripts to batch run Vaa3D plug-ins for various Institute projects
- Expanded Vaa3D region tracing plug-in to include 15 additional tracing algorithms

Tufts University Computer Science Department, Medford, MA

Programming Languages Recitation Leader, Jan 2016 – May 2017; *Algorithms TA,* Sept – Dec 2017

- Lead recitation covering lecture topics once a week and office hours
- Graded students' homework submissions

Rocket Software, Waltham, MA

Software Engineering Intern, Jun – Jul 2015

- Developed mainframe emulator with Lab Director

ACCOMPLISHMENTS

IBM CrushIT Team Delivery Excellence Award, Nov 2017

Best Wireless Reach Project Winner, Tufts ID Hackathon 2015

UNIVERSITY COURSEWORK AND PROJECTS

Concurrency, Introduction to Computer Security, Cryptography, Machine Learning, Natural Language Processing, Algorithms, Computation Theory, Principles of Operating Systems, Programming Languages, Machine Structure and Assembly Language Programming

Optimal Binary Search Tree (Python): Practical comparison of BST algorithms

Type Checker (mL): Typed language type checker for mL interpreter

KD-tree Optimization (C++): Incorporating KNN search to optimize consensus mapping plug-in

Classifying Part of Speech (Python): Predicting part of speech of text based on Viterbi algorithm

Universal Machine (C): Turing complete program with 14 instructions