

Jeremiah Bill

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Education

University of Rochester – Bachelor of Science in Computer Science

Class of 2018

- ▶ GPA **3.36**
- ▶ **Relevant Course Work:** Data Structures and Algorithms, Data Mining, Machine Learning, Data Science for Linguistics, Programming Language Design, Web/Mobile Development.

Software Engineering Experience

JP MORGAN CHASE INVESTMENT BANK
SOFTWARE ENGINEER

NEW YORK, NY
07/18 - PRESENT

- ▶ One of three founding members of a green field project which gathers and analyzes testing data in an effort to reduce test execution time and selectively execute tests based on historic test execution trend.
- ▶ Built data extraction, ingestion and processing applications using Java, Spring Boot and Cassandra. Developed REST APIs for serving data to clients and central dashboard.
- ▶ Presented demos, developed documentation, code reviewed, contributed to sprint planning. Stayed with team until first release and integration with firm-wide CI/CD pipeline.
- ▶ Currently working on Java tool which analyzes JVM source and byte code which determines the effect of a code change on the respective unit and integration test suite. I contribute to internal open source CI/CD tooling, adding features which immediately provide functionality for engineers using the tool on their project's build.

GALAHAD
SOFTWARE ENGINEER

ROCHESTER, NY
09/17 - 06/18

- ▶ Built chat bot integrations using Node.js, MongoDB, Microsoft Azure and Dialogflow to offer clients virtual assistants which streamline user interaction with their web applications.
- ▶ Developed initial prototypes and demos for our first clients.
- ▶ Member of a small remote team (<10 employees).

IBM WATSON
SOFTWARE DEVELOPER INTERN

BOSTON, MA
05/17 - 08/17

- ▶ Contributed to the development, maintenance and testing of IBM Watson Assistant which allows clients to build, deploy and test chat bots to facilitate natural conversation between their application and end users.
- ▶ Developed caching feature using Redis and Node.js to optimize throughput of messages sent from users to core Watson APIs. This enhancement improved round trip time of the main message endpoint by 70%.
- ▶ Led a team of six in IBM's nationwide intern hackathon. Built a chat bot application to support immigrants seeking citizenship in the United States. Code: github.com/jer96/IBM-Hackathon-ChatBot.

UNIVERSITY OF ROCHESTER
COMPUTER SCIENCE TEACHING ASSISTANT

ROCHESTER, NY
09/15 - 12/16

- ▶ Hosted lab sessions introducing students to fundamental programming and computer science topics using Java.
- ▶ Graded and provided feedback on labs and projects.
- ▶ Managed course email, assigned students to lab sessions, held office hours.

Computer Science Project

DATA MINING - CAREER PATH PREDICTION

Gathered and analyzed data from various sources to model career trajectories and gain insight on the current job and education market. Built data preprocessing and mining tools using Python to scrape web based data and analyze collected datasets. Achieved accurate results outlining the role education and work experience play in predicting future job industry, salary and employability. Code and report: github.com/jer96/CareerPathPrediction.