

# EFRAYIM ZITRON

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## WORK EXPERIENCE

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### **BNY Mellon, Software Engineer**

Jun 2015 | Present

- Developed multiple RESTful APIs using Java, SpringBoot, Maven, and Swagger which are regularly consumed by both internal and external clients to pull reporting data.
- Created a variety of customer-facing widgets and dashboards, as well as internal self-service administrative tools using Angular, powered by SpringBoot APIs.
- Designed and implemented ISO20022-compliant response structures for external-facing APIs as part of an initiative to adopt standardized XML-based financial messaging formats for modern JSON-based APIs.
- On-boarded clients to our APIs and provided integration support.
- Developed modular Java libraries to offer common utility and authorization functionalities across several services.
- Wrote and tuned the SQL queries leveraged by the APIs to efficiently process large amounts of data.
- Managed build and deployments of services onto an internal cloud platform.
- Initially automated the build/deployment process using Python scripts, then migrated functions to Gitlab CI/CD.
- Mentored and managed summer interns, formulating a project plan that would offer full-stack experience.
- Created a Flask application to execute DDL/DML scripts.

## EDUCATION

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### **NYU Tandon School of Engineering**

Sep 2013 | Jun 2015

B.S. Computer Engineering *GPA: 3.99*

*Valedictorian*

### **CUNY Brooklyn College**

Sep 2011 | May 2013

Coordinated Engineering Program *GPA: 4.0*

## OTHER EXPERIENCE

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### **NYU Tandon School of Engineering, Teaching Assistant**

Sep 2014 | May 2015

Introduction to Databases

- Assisted students with inquiries related to fundamental RDBMS concepts.
- Graded and provided feedback on assignments and projects.

### **NYU Tandon School of Engineering, Summer Research Assistant**

Jun | Aug 2014

Infrastructure for Quantitative Analysis of Wikipedia Data

- Implemented database infrastructure for the WikiDAT open-source project.
- Designed abstracted versions of the database using Python/SQLAlchemy for MySQL and PostgreSQL variants of the original database.
- Benchmarked bulk inserts into various versions of the abstracted databases.

### **Brooklyn College, Summer Research Assistant**

Jun | Jul 2013

Measuring Body Rotations – Microsoft Kinect

- Assembled an LED configuration to detect body rotations when attached.
- Manipulated raw data from data buffer using open-source Psychtoolbox to analyze the visual limitations of the Microsoft Kinect.

## AWARDS

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### **NYU Tandon School of Engineering, Richard W. Block Award**

May 2015

Awarded to the highest ranking member of the graduating class.

### **Brooklyn College, Jonathan Marc Zimmering Memorial Prize**

May 2013

Awarded for outstanding achievement in the Coordinated Engineering program.

## SKILLS

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Programming Languages: Java, SQL, Python, TypeScript/JavaScript, HTML

Technologies: Spring Boot, Swagger, Angular, Angular Material, Git, GitLab CI/CD, Maven, JUnit, Oracle, Jenkins, Flask, JIRA, Docker