

# Eileen J. Choe

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## EDUCATION

### UNIVERSITY OF PENNSYLVANIA

Philadelphia, PA

M.S.E. IN COMPUTER AND  
INFORMATION SCIENCE

Expected Dec 2019

GPA: 3.55 / 4.0

### LOYOLA MARYMOUNT UNIVERSITY (LMU)

Los Angeles, CA

BS IN COMPUTER SCIENCE

May 2018

Minor in Applied Mathematics

University Honors Program

GPA: 4.0 / 4.0

## LINKS

Personal Website: [eileenchoe.github.io](http://eileenchoe.github.io)

Github: [@eileenchoe](https://github.com/eileenchoe)

LinkedIn: [in/eileenchoe](https://www.linkedin.com/in/eileenchoe)

## SKILLS

### PROGRAMMING

Java • JavaScript • Python • Matlab

### FRAMEWORKS AND TOOLS

Express • AngularJS • D3.js • Node.js •  
Git

### DATABASES

mySQL • Oracle • MongoDB • Neo4j

## COURSEWORK

### GRADUATE

Internet and Web Systems

Big Data Analytics

Computer Architecture

Machine Learning

Algorithms

Theory of Computation

### SELECTED UNDERGRADUATE

Programming Languages

Intro to Databases

Artificial Intelligence

Computer Graphics

## EXPERIENCE

### UNIVERSITY OF PENNSYLVANIA | Philadelphia, PA

#### HEAD TEACHING ASSISTANT

May 2019 - Present

Authored review exercises for weekly recitations, managed team of 15 TAs, and gave a guest lecture on Web Application Development for graduate-level Database and Information Systems course (CIS 550, Summer / Fall 2019). Developing course material and recording lectures for online offering of this course.

#### RESEARCH ASSISTANT

August 2018 - August 2019

Adapted an academic relational database system written in Java to support data streams with annotations for use in health sensor research.

### BLUE ORIGIN | Kent, WA

#### SOFTWARE ENGINEERING INTERN

June 2018 - August 2018

Designed a time series data visualization library using D3.js to interface with Kafka stream system used for real time analysis of vehicle flight and test data.

#### SOFTWARE ENGINEERING INTERN

June 2017 - August 2017

Built interactive user dashboard using AngularJS, LESS, and HTML with redux client-side state management to support part serial number tracking in an internal web application used for rocket development and manufacturing.

### NASA JET PROPULSION LABORATORY | Pasadena, CA

#### ENGINEERING INTERN

June 2016 - January 2017

Developed data compression and analysis scripts in MATLAB for a thermopile detector aging study, reducing individual test analysis time by over 50%.

### RAYTHEON SPACE AND AIRBORNE SYSTEMS | El Segundo, CA

#### ELECTRICAL ENGINEERING INTERN

May 2015 - August 2015

Conducted a risk assessment qualification study for a rectifier diode and evaluated the obsolescence status of semiconductors for Raytheon products.

## SELECTED PROJECTS

#### SELENIUM TEST AUTOMATION FOR DATABASE COURSE

Built a test framework using Selenium WebDriver, Mocha, and Docker that fully automates grading of an AngularJS / NodeJS / ExpressJS / mySQL web application programming homework for graduate database course.

#### WEB SERVER AND MICRO SERVICES FRAMEWORK

Programmed a HTTP/1.1-compliant, multi-threaded, event driven web server in Java that supports both static resource requests and REST web service calls for CIS 555 Internet and Web Systems course.

## PUBLICATIONS

Ray Toal, Rachel Rivera, Alexander Schneider, and Eileen Choe. 2016. Programming Language Explorations. Chapman & Hall/CRC.