

# Matthew Rastovac

<http://matrasto.me>

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## Academics

**University of Illinois at Urbana-Champaign**

*Expected Graduation: May 2020*

- › **Major:** Computer Science
- › **Focus:** Data Science, Data Visualization, Machine Learning
- › **GPA:** 3.32 / 4.00
- › **Honors:** Dean's List Fall 2015 & Fall 2016, Phi Eta Sigma National Honor Society

## Experience

**Facebook**, *Software Engineer Intern*, Menlo Park, CA

**May 2018 – Aug 2018**

- › Integrated PIN verification to all Facebook payment systems, spanning 7 platforms and securing payments for over 800 million users
- › Designed and developed visualization platform for geographic realtime payments analysis

**NASA**, *Data Science Intern*, Cleveland, OH

**May 2017 – Aug 2017**

- › Determined correlations between physical rotorcraft component health and stress test results
- › Predicted gear health using LSTM neural networks and various statistical analyses on small datasets
- › Designed and built an extensible data analysis platform used by several research teams across NASA

**AbbVie**, *Software Engineer Intern*, Lake Bluff, IL & UIUC Research Park, Champaign, IL

**May 2015 – May 2017**

- › Designed, built, documented, and maintained extensible platform for graph database visualizations as a proof of concept for the competitive intelligence group using Javascript and SPARQL technologies
- › Adapted a public gene set sequencing and analysis website for private usage
- › Created software that assists researchers in finding correlations between gene expressions and drugs
- › Reduced data collection process from 30 minutes per sample on average to less than 1 minute

## Extracurriculars

**Co-President**, *Founders*

**Dec 2017 – Present**

- › Plan and implement the vision for UIUC's student entrepreneurship club during a pivotal restructuring, supporting over 3x growth in membership and budget, and 417% growth in student startup partners
- › Find and establish important relationships with corporate, institutional, and student partners

**Treasurer, Co-Founder**, *Studio*

**Jun 2017 – Present**

- › Treasurer of Studio, an organization focused on cultivating collaboration between student side-projects
- › Plan events, manage financial reports, and actualize group's vision for over 15 students

**54 Co-Director**, *Founders*

**Jun 2017 – Sep 2017**

- › Organized 54 ([www.54.io](http://www.54.io)), the university's largest startup weekend with over 100 yearly participants
- › Delegated and aided with responsibilities to 12 team members involving sponsors, logistics, and outreach

## Personal Projects

- › Phase: an open-source framework for visualizing dynamic networks and complex system simulations
- › Tabber: an open-source chrome extension for bookmarking Facebook Messenger conversations
- › WordBox: an open-source Amazon Alexa skill for word statistics with hundreds of monthly users

## Technologies

### Proficient

- › Python
- › Javascript (Web or Node.js)
- › MySQL
- › D3.js
- › React.js

### Comfortable

- › MongoDB
- › Keras
- › C++
- › Stardog (Graph Database)
- › SPARQL