

JOSEPH BIGGINS

☎ (630) 842-0626

@ joseph-biggins@uiowa.edu

🌐 joe-biggins.com

in linkedin.com/in/joseph-biggins

🐙 github.com/jjbiggins

EDUCATION

Computer Science and Engineering, B.S.E.

University of Iowa

📅 Aug 2015 – Dec 2019

📍 Iowa City, IA

Machine Learning, E.F.A.

University of Iowa

📅 Aug 2018 – Dec 2019

📍 Iowa City, IA

SKILLS

SOFTWARE

- Proficient: Java, NodeJS, Python, C, C++, JavaScript, HTML, CS
- Familiar: SQL, PHP, R%

TOOLS & TECHNOLOGIES

- Proficient: Git, GitHub, Angular, Bootstrap, Express, Firebase, React, React Native
- Familiar: MySQL, MongoDB, Apache, AWS

PLATFORM

- Proficient: Linux, Unix, Windows
- Familiar: iOS, Android

EXPERIENCE

Options Trading Intern

T.H. Brokerage

📅 May 2018 – Aug 2018

📍 Chicago, IL

- Worked closely with brokers to deliver pivotal quantitative and qualitative market data
- Working with team on design, development and integration of real-time video analytic solution.
- Performed in-depth market analysis to optimize per trade profitability
- Collaborated cohesively with executives to facilitate and foster customer relations
- Collaborated with brokers to inform investment decisions and prioritize engineering projects
- Deployed advanced statistics and ML techniques to quantify revenue opportunities and introduce them to our systems

Engineer I

Mostardi Platt

📅 Feb 2017 – June 2018

📍 Elmhurst, IL

- Ran experiments in accord with EPA standards
- Developed software to evaluate numerous inputs and return reliable results
- Communicated seamlessly among teammates to diagnose and resolve problems
- Prepared and reviewed engineering design calculations feasibility studies drawings reports permit applications volume and cost estimates construction documents and construction support services; and
- Managing multiple project assignments meeting strict deadlines and traveling to client facilities as needed.

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PROJECTS

Masked Face Detection for ATM

- Developed a head classifier to detect masked faces in ATM to potentially prevent the event of robbery.
- Different camera angle, position, image quality, illumination and type of occlusion were the major challenges. Improved the existing accuracy by 20%.

Person Tracking

- Developed, modified and implemented robust object tracker by combining motion and appearance information to learn deep association