

# Matthew S. Kreutter

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## EDUCATION:

**Washington University in St. Louis**, St. Louis, MO

May 2018

B.S. in Computer Science with a Minor in Entrepreneurship

GPA: 3.59/4.0 ▪ Dean's List ▪ National Merit Scholar ▪ AP Scholar with Distinction

## SKILLS:

**Software & Programming:** Proficient in Java ▪ Working knowledge in C++, Spark/Hadoop, SQL, Python, Bash, PHP/Laravel, HTML/CSS, Git/SVN ▪ Exposure to JavaScript/jQuery, zTPF Assembler, SISC Scheme, C#

**Spoken Languages:** Fluent in English ▪ Conversational in Spanish

## RELEVANT COURSEWORK:

**Computer Science:** Intro to Functional Programming, Intro to Operating Systems, Data Structures and Algorithms, Object-Oriented Software Development Laboratory, Rapid Prototype Development and Creative Programming, Cloud Computing with Big Data Applications, Collective Intelligence, Mobile Application Development, Intro to Artificial Intelligence

**Mathematics:** Calculus I, II, and III, Matrix and Linear Algebra, Logic and Discrete Mathematics, Elementary to Intermediate Statistics and Data Analysis

## WORK EXPERIENCE:

**IMC Financial Markets**, *Software Engineering Intern*

Summer 2017

- Improved trades analysis tool used to identify reasons for missed trades and improve quoting strategy
- Wrote and benchmarked performant Spark to process terabytes of trades and market data daily

**NISA Investment Advisors**, *IT Intern*

Fall 2016

- Built out an OData service to parse data from a SQL Server view and display the data to a web endpoint
- Implemented proof-of-concept for an automated testing framework to routinely test proprietary web applications and log results

**Visa**, *Switching Systems & Network Processing Intern*

Summer 2016

- Optimized use of standard library functions to reduce overhead, resulting in a 2.6% improvement in system performance that will save Visa \$1,000,000 over three years
- Created the framework for a plugin that allows users to test proprietary message types in SoapUI

**Kizazi**, *Web Developer*

Summer 2015

- Designed front end of e-commerce website, kizazi.com
- Optimized on and off-page SEO through Google Analytics and long tail keyword planning
- Conducted audience analysis, collecting and applying user data to increase traffic and retention

**Frontier Utilities**, *IT Analyst Intern*

Summer 2014

- Queried Frontier's database to provide in-depth reports on customer and company activity
- Implemented stored procedures to update and convert raw data to easily digested graphics in real-time

## LEADERSHIP, COMMUNITY, AND PEER ENGAGEMENT:

Computer Science TA and Tutor

2015 – 2016

LIVE (Leaders in Interpersonal Violence Education) Facilitator

2015 – Present

Beta Theta Pi Fraternity Executive Board Member

2014 – Present

Washington University Men's Club Volleyball Team

2014 – Present