

# MAXWELL ANTHONY GOEKE

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## EDUCATION

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- 2019-Present **Villanova University, Computer Science and Mathematics**, Villanova, PA  
Bachelor of Science, Expected graduation May 2023
- 2015–2019 **Rockhurst High School**, Kansas City, Missouri  
GPA: 4.456, SAT: 1520 (790M 730E)  
Involvement: Robotics Team (Lead Software Engineer), Varsity Cross Country, Hackers Club (President)

## EXPERIENCE

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- 11/2018 – Present **Chief Development Officer, Three(02) Capital**, Kansas City, MO
- Lead the development of hedged trading algorithms based on in-house designed strategies using Interactive Brokers.
  - Built, implemented, and manage a Securities Master Database comprised of historical market data from numerous indices.
  - Leveraged knowledge in Python, SQL, Git, Java, JavaScript, and React.
- 06/2019 - 08/2019 **Software Development Intern, Bungii**, Overland Park, KS
- Led the migration of the company website from Squarespace to Wordpress, including a light redesign (<https://bungii.com>).
  - Designed and implemented automation software to streamline everyday operations. Gathered data using half a dozen API's and sorted all outputs within Google Sheets.
  - Leveraged knowledge in Full Stack Web Development, HTML/CSS, PHP, SQL, and Python.

## SOFTWARE PROJECTS

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- 2019 - Today **Multiregional Chat Bots with Machine Learning**
- Designed a system of chat bots that allows users to converse with one of eight regions within the United States, categorized by regional vocabulary and speech style.
  - Gathered and processed speech data from twitter using a number of streaming, sorting, and cleaning algorithms. Trained bots for conversation with TensorFlow.
  - Utilized: Python, PostgreSQL, NLP, TensorFlow
- Summer 2019 **Portfolio Management GUI**
- Designed and developed a graphical user interface featuring portfolio management, stock analysis, and news-based research.
  - Pulled over 150 financial datapoints from IEX that can be used for stock analysis, as well as news articles from trusted sources.
  - Utilized: Java, Python + PyQt5, Git
- Winter 2018 **Pythonic Backtesting CLI**
- Created a locally based Command Line Interface for Interactive Brokers users who don't want to submit their trading strategies to an online backtesting platform/ or build their own platform.
  - Inspired from struggling with the lack of native support for backtesting my own algorithms.
  - Utilized: Commander.js, MongoDB

## COMPUTER SKILLS

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**Software:** (*proficient*): Python, Java, HTML/CSS, JavaScript, React, Git (*familiar*): C++, SQL, MongoDB, PHP