max.goeke0@gmail.com
www.github.com/4ked

MAX GOEKE

(913) 626-5604
maxgoeke.me

EDUCATION

Villanova, PA	**Villanova University**	**Aug 2019 – May 2023**

- **Major:** Computer Science, B.S + Mathematics, B.S (GPA: 3.84)
- **Programming Coursework:** Algorithms & Data Structures I/II, Computer Systems I/II, Analysis of Algorithms
- **Mathematics Coursework**: Calculus III, Differential Equations, Foundations of Math
- **Involvement:** Villanova Programming Team, Villanova Wildcat Academy (Investment), Villanova ACM Chapter

EXPERIENCE

Web / Software Developer, Intern	**Bungii (startup)**	**June – Aug 2019**

Bungii (www.bungii.com): On-Demand Pickup Truck Rental App
- Spearheaded website migration from Squarespace to WordPress, including a design overhaul.
- Designed and implemented automation software with external API's to streamline everyday data analysis operations. Estimated to have saved 6 hours of work per week.
- Leveraged knowledge in HTML/CSS, PHP, Python.

Chief Development Officer	**Three(02) Capital**	**2018 – 2019**

Three(02) Capital: Boutique quantitative investment fund
- Lead the development of hedged trading algorithms based on in-house trading strategies using QuantRocket.
- Built, implemented, and managed a Securities Master Database comprised of historical market data from numerous indices.
- Leveraged knowledge in Python, SQL, Git, Java.

SOFTWARE PROJECTS

Serverless Financial Dashboard (Ongoing)
- Developed a web application using AWS Lambda and React.js that allows users to analyze their investment portfolio in more depth, while also discovering new trading opportunities.
- Financial data is pulled from the IEX Cloud.
- Wrote a number of custom scripts to search for market-wide anomalies and notable events.
- Leveraged knowledge in JavaScript (React), AWS

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.
- Leveraged knowledge in JavaScript, MongoDB, Python

Shooting Range Video Game
- Built a modern take on the classic shooting range game to learn OOP.
- Includes reticle vector physics, randomized duck paths, random pop-up targets, game statistics and scoring, and an interactive bullet limit.
- Leveraged knowledge in JavaScript

ADDITIONAL EXPERIENCE

- **Kattis (2020):** Competitive programming website. Personal solutions written in Java, Python, and C.
- **Algorithmic Trading (2018 - Present):** Designed various technical strategies and built automated algorithms for DOW and S&P option markets.

SKILLS

Software: (proficient): Python, Java, JavaScript (+React), Node.js , Git (familiar): C, Unix, SQL