

# CHRISTIAN WILKIE

<https://github.com/ChristianWilkie>

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## Experience

- **Goldman Sachs - Global Markets, Futures Technology**—New York, NY  
*Software Engineer: March, 2020–Present*
  - Delivered high quality peer-reviewed backend Java code using Guice for dependency injection, Vert.x for backend microservices, and GitLab CI/CD pipelines for deployment onto Linux servers.
  - Developed frontend code using Angular with TypeScript.
  - Modernized and uplifted legacy systems with FIX 4.4 protocol and order management system integration.
  - Integrated high performance systems using protobuf for data serialization and RabbitMQ as a message broker.
  - Communicated with front office traders to deliver software that successfully meets their business needs.
  - Visualized application data using Python with pandas, numpy, and matplotlib.
- **3M Health Information Systems**—Meriden, CT  
*Software Engineer: March, 2014–March, 2020*
  - Designed Java backend web applications using Spring Boot for REST microservices.
  - Unit tested Java applications using JUnit and Mockito. Wrote testable code using SOLID design principles and mocked dependency injection on Amazon AWS.
- **University of Connecticut**—Storrs, CT  
*Research Assistant: December, 2010–March, 2013*
  - Developed novel mathematical optimization algorithms for emergency evacuation guidance using Lagrangian relaxation, Markov chain stochastic modeling, and computational fluid dynamics software.
  - Coauthored a journal article in IEEE TASE with 70+ citations, conference paper, and presented a poster at the National Science Foundation CMMI Conference (2013) for NSF grant CMMI-1000495.

## Projects

- **HackMoney2021 (Tennerr):** DeFi prototype of Fiverr - worked on the frontend using React and Bulma. Integrated MetaMask Ethereum wallet connection using Web3.js.

## Education

- **Georgia Institute of Technology**—Atlanta, GA  
*Master of Science in Computer Science, 2019-2021, GPA: 4.0/4.0*
  - Teaching assistant for CS7646: Machine Learning for Trading.
- **University of Connecticut**—Storrs, CT  
*Bachelor of Science in Electrical Engineering, Minor in Nanotechnology, 2007-2011, GPA: 3.688/4.0*