

# Stephen M. Lee

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## WORK EXPERIENCE

- Consultant:** *Hade Technologies* 2018
- Performed a forensic audit after claims of suspicious trading behavior.
  - Found and reported a vulnerability with several decentralized exchanges, saving millions of dollars in fraud.
- Co-Founder:** *EthMemphis* 2018
- Business focused Ethereum hackathon and workshop event with \$4,000 awarded in prizes.
  - Led the planning and operations from idea through implementation.
  - Managed website content, design, and communications.
- Consultant:** *Hade Technologies* 2018
- Audited the smart-contracts used in their ICO.
  - Rewrote and deployed updated token in a three-day turnaround to fix issues found in audit.
  - Suggested and created company GitHub for visibility.
- Demand Planner:** *Fanatics Apparel* 2015 – 2016
- Informed senior management of company vitals by sending daily sales reports.
  - Reduced waste by reorganizing hundreds of untracked garments at the production facility.
  - Streamlined the order entry system for on-demand and hot-market items.

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## EDUCATION

### University of Memphis

Memphis, TN

- **M.S. Computer Science:** *Graduate Assistant* Current
- **M.A. Economics:** *Graduate Assistant* 2016 - 2018
- **B.S. Physics and Mathematics:** *Cum Laude* 2013
  - Four-year starter on nationally ranked Division-I golf team.
  - Competed in the 2011 PGA Tour FedEx St. Jude Classic.

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## CURRENT PROJECTS

- Research:** *Cryptocurrency Market Analysis* 2018
- Question..... Are cryptocurrency prices correlated? Do the frequency or sentiment of Tweets impact the price?
  - Analysis..... Cointegrating vector analysis, Granger causality tests, and fitted TGARCH models.
  - Tools..... Python; eViews; and Amazon Web Service EC2 and RDS instances.
- Co-Founder:** *BookLocal Travel Solutions* 2017-2018
- Problem..... Duopoly of online travel agents creates high commission rates and lopsided legal agreements.
  - Solution..... Decentralized hotel room distribution and guest booking services.
  - Use..... Made first ever hotel room booking on the Ethereum blockchain at EthMemphis (proof-of-concept).
  - Tools..... Truffle; Solidity; Javascript; and Mocha for testing.

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## TECHNICAL SKILLS

- **Data Science and Web Scraping**
  - Python including BeautifulSoup, requests, selenium, statsmodels, scikit-learn, and pandas libraries.
  - Amazon Web Services (AWS) for cloud computation (EC2) and storage (RDS).
  - eViews for timeseries analysis including ARIMA, GARCH, and VAR models, ACF and PACF graphs.
  - STATA for panel and cross-sectional data including logit, probit, and fixed effect modeling.
- **Blockchain**
  - Solidity for smart-contract development on the Ethereum network.

- Javascript and web3.js library for front-end interactions with the Ethereum Virtual Machine (EVM).