Peter Zinkovsky

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Github: *https://github.com/peterz3*

Education

University Of Illinois Urbana-Champaign, IL

Bachelor in Computer Science and Statistics - 3.75 GPA, Dean's list   *Graduating May 2022*
  ➢ **Selected Coursework**: Distributed Systems,Databases, ML, AI, Systems Programming, Algorithms, Data Structures, Computer Architecture, Software Design Studio, Statistical Analysis, Advanced Stats

Skills
  ➢ **Languages:** C++, Python, C, Java, JavaScript, SQL, MongoDB, Neo4j, Node JS,CSS
  ➢ **Technologies:** AWS, Docker, Pytorch,Express, Angular, Jenkins, Node, Git

Experience

Capital One

Software Engineering Intern - Commercial Banking Division   *May 2020 – July 2020*
  ➢ Developed app to allow project managers to toggle features within the card platform
  ➢ Worked across three-tier architecture to develop front-end, middleware and database layers as well as automated deployment pipeline, using Angular, AWS lambda and Jenkins
  ➢ Reduced latency time for feature toggling by 10x, integrated across several teams at Capital One

Systems and Platform Research Group

Research Assistant   *April 2019 – Sep 2019*
  ➢ Conducted research on a machine learning based memory management system for SSD's, reducing write latency by 30% in backtests
  ➢ Benchmarked edge-computing devices with machine learning tasks such as object detection and image classification, applied methods to optimize and compress neural networks

Abbvie

Software Engineering Intern   *April 2019 – August 2019*
  ➢ Rewrote and optimized legacy C++ code dealing with networking, file management and user authentication
  ➢ Developed backend of a face authentication service using Microsoft Face API with Node JS

Illinois Business Consulting

Senior Consultant   *August 2020 – Current*
  ➢ Analyzing and developing strategy for response to Covid-19 with one of the nation's largest nonprofits
  ➢ Researching improvements to be made in technical infrastructure for service delivery

Consultant   *January 2020 – July 2020*
  ➢ Consulted an S&P 100 company on how to increase technology uptake of internal simulation and modeling software
  ➢ Increased internal software uptake by 80% resulting in 20k reduction in software costs for the client

Projects and Competitions

Ethereum Trading Bot
  ➢ Developed infrastructure for trading on the bitmex exchange using trend-following strategies
  ➢ Automated backtesting system using orderbook data; applied multithreading for 15x speed increase

Market Simulator
  ➢ Designed website for simulated market trading using virtual currency; used Django, SQL and Neo4j
  ➢ Developed feature for recommending users stocks based off of order history

Hackvie 2019 - Winner of Most Impactful to Business Prize
  ➢ Built and prototyped a wearable muscle sensor to detect muscle spasms and evaluate botox treatment
  ➢ Won "Most Impactful to Business" prize

NCSA NVIDIA AI Hackathon - Second Place
  ➢ Created a neural network that can recognize song genres with close to 70% accuracy
  ➢ Used UIUC's GPU-accelerated computing cluster to speed up training time, built with Tensorflow, and Keras