Gowtham Kuntumalla

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Education

- **University of Illinois at Urbana-Champaign (UIUC)** **Online**
  Master of Computer Science. **GPA: 3.96/4** *2023*
- **University of Illinois at Urbana-Champaign (UIUC)** **Urbana, US**
  Master of Science, Mechanical Engineering. **GPA: 3.9/4** *2020*
- **Indian Institute of Technology (IIT) - Bombay** **Mumbai, India**
  Bachelor of Technology. Mechanical Engineering, Computer Science. **GPA: 9.3/10 (Top 5%)** *2018*

Professional Experience

- **Forest Creek Capital LLC** **Dallas, US**
  Quantitative Research Analyst, **Investment Management & Data Science** *June 2020 – Current*
  - Applied advanced quantitative analysis, incorporating statistical techniques and machine learning, to drive informed investment decisions within the commodity financial markets.
  - Managed a dynamic trading desk, assuming full responsibility for P&L, demonstrating a keen ability to navigate market complexities and optimize performance.
  - Designed and implemented both automated and manual trading strategies, enhancing market trend identification, portfolio management, and risk assessment methodologies.
  - Leveraged expertise in Python, SQL, PHP, and Google Cloud Computing for seamless data manipulation, robust modeling, and insightful reporting, consistently surpassing benchmark returns while prudently managing risk.

Internships and Academic Work Experience

- **Uber Technologies Inc.** **San Francisco, US**
  Mfg. Engineering Intern, New Mobility Division – **Software, Data Analytics & Business Modelling** *May – Aug 2019*
  - Programmed software (C++, Embedded Linux) for IoT on JUMP e-vehicles to interface Bluetooth with sensors
  - Analysed large datasets to establish GPS accuracy specifications for a next-generation IoT device
  - Proposed and executed a new operations model, driven by genuine interest, aimed at significantly improving unit economics with potential savings of $60 million.
- **Washington University in St.Louis** **St.Louis, US**
  Summer Research Intern, Department of Energy and Chemical Engineering – **Scientific Computing** *May – Jul 2017*
  - Performed literature review on fractals, gelation and wrote C++ programs for simulating this phenomenon
  - Designed a protocol to run our algorithm and process Terabytes of data on high-performance computing (HPC) cluster
  - Received a fully funded return offer for the Ph.D. program for excellent progress
- **UIUC** **Urbana, US**
  Research Assistant and Teaching Assistant, rated excellent TA in Spring 2019 *Aug 2018 – May 2020*
  - Conducted tutorials, graded examinations & mentored students in courses: Senior Design project, Heat Transfer lab and Engineering Mechanics
  - Perform graduate level research in Energy Science and Engineering

Academic Projects

- **Metal Polymer Hybrid Heat Exchanger System** **Aug 2018 – Dec 2019**
  Adviser: Prof. Sanjiv Sinha, UIUC
  - Conceptualised the design stage and spearheaded the execution of manufacturing and testing plan of action
  - Co-authored articles published in ASME, IJHMT, and other reputed journals. US Patent; Google Scholar Profile
- **Particle Image Velocimetry (PIV)** **Apr 2016 – Jun 2016**
  Programming Project, Guide: Prof.Amit Agrawal, IIT Bombay - **Scientific Computing**
  - Implemented software (C++, MATLAB) to evaluate flow velocity using a cross-correlation FFT routine digitally

Skills and Interests

- Python, SQL, Google Cloud, Linux Shell, C++, PHP, MATLAB, HTML, LaTeX, Git, Data Analytics, Badminton, Reading