Gowtham Kuntumalla

Dallas, TX | (945) 527-7083 | gowthamkuntumalla@gmail.com | gowthamkuntumalla.github.io

EDUCATION

- **University of Illinois at Urbana-Champaign (UIUC)** — **Online**
  Master of Computer Science. **GPA: 3.9/4** — *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*
  - Conducted literature review on fractals and gelation, implementing simulations using C++
  - Devised an efficient protocol to process Terabytes of data on a high-performance computing (HPC) cluster
  - Recognized with a fully funded return offer for the Ph.D. program due to outstanding progress

- **UIUC** — **Urbana, US**
  Research Assistant and Teaching Assistant, rated excellent TA in Spring 2019 — *Aug 2018 – May 2020*
  - Conducted tutorials, graded exams, and provided mentorship in Senior Design Project, Heat Transfer Lab, and Engineering Mechanics courses
  - Engaged in graduate-level research within the field of Energy Science and Engineering

ACADEMIC PROJECTS

- **Metal Polymer Hybrid Heat Exchanger System** — **Aug 2018 – Dec 2019**
  Adviser: Prof. Sanjiv Sinha, UIUC
  - Led design, manufacturing, and testing plan from concept to execution
  - o-authored articles published in reputable journals including ASME and IJHMT; US Patent; Google Scholar Profile

SKILLS AND INTERESTS

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