

Gowtham Kuntumalla

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EDUCATION

- **University of Illinois at Urbana-Champaign (UIUC)** **Champaign, US**
Master of Science, Mechanical Engineering. GPA: 3.9/4.0 2018 – 2020
- **Indian Institute of Technology (IIT) - Bombay** **Mumbai, India**
Bachelor of Technology. Mechanical Engineering, Computer Science. GPA: 9.3/10.0 (Top 5%) 2014 – 2018

SKILLS

- **Programming:** Python, C/C++, Linux Shell, PHP, SQL, JavaScript, MATLAB, HTML, \LaTeX , Git, OpenCV, BLE
- **Technical:** Google Cloud, SolidWorks, ANSYS, AutoCAD, JMP (Design of Experiments)
- **Misc.:** Project Management, Team Leadership, Rapid Prototyping, Six Sigma (Green Belt), Data Analytics, Value Investing

PROFESSIONAL EXPERIENCE

- **Forest Creek Capital LLC** **Dallas, US**
Quantitative Analyst - Trader, Investment Management & Data Science June 2020 – Current
 - Develop automated (Python, PHP) and manual quantitative strategies for trading in commodity financial markets
 - Perform portfolio construction, risk management using proprietary algorithms, large scale databases and cloud computing
- **Uber Technologies Inc.** **San Francisco, US**
Engineering Intern, New Mobility Division – Software, Data Analytics & Business Modelling May – Aug 2019
 - **P1:** Programmed software (C++, Embedded Linux) for IoT on JUMP vehicles to interface Bluetooth with sensors
 - **P2:** Wrote SQL queries and analysed large datasets to establish GPS accuracy specifications for next-gen IoT device
 - **P3:** Proposed a new operations model to radically improve unit economics with potential improvements of \$60 million (executed project out of sheer interest)
- **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 funded return offer for the Ph.D. program for excellent progress
- **UIUC & IIT Bombay** **Urbana & Mumbai**
Teaching Assistant, rated excellent in Spring 2019 – Teaching and Mentoring Feb 2017 – May 2019
 - Conducted tutorials, graded examinations & mentored students in courses: Senior Design project, Heat Transfer lab, Engineering Mechanics and Calculus 2
- **IIT Bombay** **Mumbai, India**
Technical Manager, Student Council of Hostel 4 – Elected Post, Led a Team of 4 Apr 2016 – Mar 2017
 - Played the instrumental lead role in achieving the coveted **1st/16** position in intra-college annual general championship
 - Awarded Color and Special Mention for significant contribution to the development of hostel culture

ACADEMIC PROJECTS

- **Metal Polymer Hybrid Heat Exchanger System** **Aug 2018 – Dec 2019**
Adviser: Prof.Sanjiv Sinha, UIUC. Funded by DOE, US Govt. - Energy Systems
 - Conceptualised the design stage and spearheaded the execution of manufacturing and testing plan of action
 - Applied for a **US Utility Patent**; co-authored articles published in ASME, IJHMT and other reputed journals
- **Particle Image Velocimetry (PIV)** **Apr – Jun 2016**
Programming Project, Guide: Prof.Amit Agrawal, IIT Bombay - Scientific Computing
 - Implemented software (C++, MATLAB) to digitally evaluate flow velocity using a cross-correlation FFT routine
- **PRATHAM Student Satellite** **Jan – Oct 2016**
Mechanical Engineer, IIT Bombay - Nano-Satellite Mechanical Analysis
 - Analysed structural integrity of satellite under various dynamic loads experienced in orbit. We launched it successfully on a PSLV rocket built by ISRO