Gowtham Kuntumalla

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Education

- **University of Illinois at Urbana-Champaign** **Champaign, USA**
  Master of Science, Mechanical Engineering. **GPA: 3.9/4.0** *2018 – May 2020*
  - **Relevant courses:** Pattern Recognition, Systems Engineering, Mfg. Data and Quality Systems
- **Indian Institute of Technology-Bombay** **Mumbai, India**
  Bachelor of Technology. Major: Mechanical Engineering, **Minor: Computer Science**. **Top 5%** *2014 – 2018*
  - **Relevant courses:** Machine Learning, Data Structures & Algorithms, Non Linear Dynamics, Manufacturing Automation, Operations Research, Networks & Security, Operating Systems **CPI: 9.32/10.00**

Skills

- **Programming :** Python, C/C++, Linux Shell, SQL, MATLAB, HTML, LaTeX
- **Software:** SolidWorks, ANSYS Mechanical, AutoCAD, MS Office, JMP (Design of Experiments)
- **Misc.:** Product Management, Team Leadership, Rapid Prototyping, Six Sigma (Green Belt), Data Analytics, Investing

Professional Experience

- **Uber Technologies Inc.** **San Francisco, USA**
  Engineering Intern, New Mobility Division – **Software, Data Analytics & Business Modelling** *May – Aug 2019*
  - **P1:** Wrote software for the Internet of Things (IoT) device on JUMP vehicles to process Bluetooth low energy (BLE) signals from sensors on e-vehicles. *Languages used: C++, Python, Embedded Shell Script*
  - **P2:** Wrote SQL queries to establish specifications for GPS accuracy in the IoT device
  - **P3:** Proposed a new operations model to improve unit economics with potential improvements of $60 million
- **Washington University in St.Louis** **St.Louis, USA**
  Summer Research Intern, Department of Energy and Chemical Engineering – **Scientific Computing** *May – July 2017*
  - Undertook comprehensive literature review on fractals, aggregation processes and designed a protocol for conducting computer simulations on high performance computing (HPC) cluster. *Languages used: C++ , Bash*
  - Analysed effects of change in defining parameters like volume fraction on kinetics of the sol to gel transition
- **UIUC & IIT Bombay** **Urbana & Mumbai**
  Teaching Assistant, ranked as excellent in Spring 2019 *Feb 2017 – May 2019*
  - Teaching Assistant for the courses: Heat Transfer Lab, Statics, Engineering Mechanics and Differential Equations
- **IIT Bombay** **Mumbai, India**
  Technical Manager, Student Council of Hostel 4 – **Elected post, Led a team of 4** *April 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 – April 2020**
  Adviser: Prof.Sanjiv Sinha, UIUC. Funded by DOE, US Govt. - **Design and Manufacturing**
  - Conceptualised the design stage and spearheading the execution of manufacturing plan of action
- **Particle Image Velocimetry (PIV)** **April – June 2016**
  Programming Project, Guide: Prof.Amit Agrawal, IIT Bombay - **Scientific Computing**
  - Implemented a computer code on C++ to perform the 2D digital evaluation of flow velocity using FFT routine of Cross Correlation technique
- **Mechanical Engineer, PRATHAM** **Jan – Oct 2016**
  Student Satellite Team, IIT Bombay - **Nano-Satellite Mechanical Analysis**
  - Analyzed and verified (modal,static structural) integrity of satellite components under various dynamic which the satellite may experience during operation in orbit