Saieesh Jirwankar   170010004

Aerospace Engineering   B.Tech.

Indian Institute of Technology, Bombay   Gender: Male

DOB: 11-03-1999

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2021	

INTERNSHIPS AND WORK EXPERIENCE

- **Futures First Financial Internship** - *Commodities Trader, Global Energy Market* (May '20 - July '20)
  *Received a **Letter of Recommendation** from the AVP, Bangalore for exemplary work, efficiency and professionalism*
  - Traded in outright, spread and butterfly contracts of **WTI Crude oil** and RBOB Gasoline on a simulator
  - Speculated and correlated the price variation, seasonality and volatility by analysing data acquired from **Eikon Thomson Reuters, Python APIs, Eikon Excel add-in** and the fundamentals of energy market
  - Strategized and automated trades using **ADL**(Algo Desgin Lab, Trading Technologies) based upon technical analysis from the weekly reports and online meets with the branch team members and team mentor
- **University of Liverpool** (Liverpool, United Kingdom) - *Summer Internship* (May '20 - Cancelled due to Covid-19)
  *Secured an **Internship Offer** in the field of **Deep Learning** from the Computer Science Department, University of Liverpool*
- **FinShell , Mumbai** (An **OPPO** group Company) - *Java Developer (Android)* (June '19 - July '19)
  *Received a **Letter of Recommendation** from the Head of Analytics, OPPO Mumbai for the flawless work during tenure*
  - Developed a **Data Extraction Module** using coding platforms like **Android Studio** and Atom, which extracts consent based device data logs (OS Metadata, App Usage, Text summary, Location)
  - Ideated and developed a **QR code scanner** with Project team, using platforms like **Spring Boot** and Postman, which assisted in the **password-less authentication** of the product users in an app

POSITIONS OF RESPONSIBILITY

- **Department Head, Green Campus** - *National Service Scheme, IIT Bombay* (Apr '19 - May '20)
  - Part of a 11 member team serving **1 Lakh people** by impacting society via education and sustainability
  - Led a two-tier team of 7 activity Associates and 100+ volunteers to execute activities directed towards the conservation, beautification and diversification of green cover in the campus
- **Deputy Department General Secretary** - *Department of Aerospace Engineering, IIT Bombay* (Aug '19 - May '20)
  - Elected as a representative of the undergraduates to increase the interaction among the students and faculty members to promote student's interests in the department and field of aerospace engineering
  - Organized and managed different technical and non-technical events associated with the department
- **Teaching assistant(TA)** for the course ME119 - *Mechanical Engineering Department* (August '19 - May '20)
  - Established a rapport with a lab of **300+ students** and conducted help sessions to aid them in exams
- **Administrative Co-ordinator (Infrastructure)** - *Techfest IIT Bombay* (Apr '18 - Jan '19)
  - Part of the team for Asia's largest science and technology festival | **1,65,000+ footfall** | 240+ Events
  - Assisted in **SHE**, an initiative to promote Sanitary and Health Education, through a network of **2,00,000+** sanitary pads along a route covering **37 remote villages**

CERTIFICATIONS AND TECHNICAL SKILLS

- **Certifications : Cryptocurrency and Blockchain**(University of Pennsylvania), **Data Structures and Algorithms** (University of California - San Diego), **Neural Networks and Deep Learning**(deeplearning.ai)
- **Programming Languages & packages :** Python, Java, C++, Pandas, Numpy, TensorFlow, PyTorch, html, Arduino
- **Softwares :** MATLAB, Android Studio, Simulink, Atom, SpringBoot, Excel, SolidWorks, AutoCAD, LaTeX

TECHNICAL PROJECTS

- **Big Data Analysis of Loan Statistics of USA** - *Course Project, Prof. Prabhu Ramachandran* (May '18)
  - Worked in a team of six to analyse and depict the distribution of loans in the United States using various python libraries like **matplotlib**, **SciPy**, **numpy** and **pandas** from the data available for the years 2007-11
  - Correlated the number of loans issued by Lending Club with different factors like geographical distributions, seasonality, types of loans, DTI etc. and used python libraries to depict them by various plots
- **3-D Optimization** *Course Project, Prof. GR Shevare, Prof. Abhijit Gogulapathi* (March '20)
  - Worked in a team with a common goal of determining positions of 3 light bulbs in a room to ensure uniform illumination on one of its walls by also satisfying **design constraints** and optimisation penalty functions
  - Formulated, implemented and compared optimization strategies like **Genetic Algorithm Simulated Annealing** on a 7-DOF problem, achieving **70 % reduction** in cost function within 10 iterations

EXTRA - CURRICULAR

- Put an outstanding performance in the event **Swimmathon** by swimming non-stop for **12.1** km in **10 hrs** *(May '19)*
- **Captain** of the **Football** team who won the **Aerospace Dept. Football Tournament** *(Mar '19)*
- **Class Representative** of the batch of **Aerospace Department** with a strength of 62 students *(Aug '19 - Present)*
- Represented Hostel 4 twice in **Crossy general Championship** along with 150 runners in which the hostel secured **rank 2** and **1** respectively *(Oct '18 and Apr '19)*

Scholastic achievements and extracurricular activities are not verified by the Placement Cell