Sumeet Saini

Software Engineer

PROFILE

Software Engineer with a strong track record of identifying and solving high-impact business and technical problems. Across both industry and academic environments, consistently delivers robust engineering solutions to complex challenges — from enabling entry to new markets at Mako Trading, to building security systems at IBM, to supporting AI research and education at King's College London. Places a strong emphasis on knowledge sharing and clear communication, and works effectively with both technical and non-technical stakeholders to ensure that solutions are functional, efficient, understood and adopted. Experienced in C++ and Python, comfortable in Linux environments.

EXPERIENCE

- **Mako Trading**   London, UK
  Graduate Software Engineer - C++, Linux, Python, GMock   *Sept 2023 - Present*
    - Led development of a new market data feed handler for Asia stock futures & options, **enabling the firm to enter a previously untapped market**; also rewrote a legacy handler to support new trading functionality and maintain full production reliability
    - Enhanced internal trading frameworks to enable previously unsupported trade types, including resolving a critical bottleneck in combo instrument dissemination, **reducing latency by up to 2 seconds for multi-leg order submission**
    - Engineered IPC queue optimisations to manage instrument definition flow, preventing queue flooding and **preserving priority delivery of price information for latency-critical trading strategies**
    - Delivered exchange protocol upgrades and production bug fixes, maintaining uninterrupted trading operations during market transitions and **ensuring compliance with evolving exchange requirements through UAT, unit, and regression testing**

- **King's College London**   London, UK
  Research Assistant   *Sept 2022 - Sept 2023*
    - Supported UKRI-funded research on AI skill adoption, conducting literature reviews, writing reports, and facilitating workshops with **senior stakeholders in healthcare and transport** to assess adoption barriers
    - Independently built and launched a website for the MASS People Working Group, **working directly with non-technical members** to meet evolving requirements and present competency standards for maritime autonomous systems to a global audience

- **IBM**   Winchester, UK
  Extreme Blue Intern - Python, React, Flask   *June 2022 - Sept 2022*
    - Led the development and design of a **first-of-its-kind rogue wireless access point detection system**, enabling IBM to proactively identify and geo-locate unauthorised APs—a long-standing unsolved problem in enterprise network security
    - Designed and built an **end-to-end solution**, integrating Cisco router telemetry, ML-based device classification, and triangulation, with results delivered via a real-time dashboard for internal security teams
    - Recognised by IBM SevOne product managers as a breakthrough solution to an unsolved industry problem, who selected our prototype's functionality for **integration into their commercial product**
    - Engaged stakeholders across security, network engineering, and non-technical teams, ensuring the system addressed operational requirements and could **scale beyond the prototype stage**

EDUCATION

- **King's College London**   London, UK
  MSci Computer Science with Artificial Intelligence (First Class Honours)   *Sept 2019 – Aug 2023*
    - **Dissertation -** Adversarial Robustness and Improved Generalisation Through Image Manipulation Prediction
    - **Project -** Airport Parking Optimisation in Collaboration with Bristol City Airport and AWS

EXTRACURRICULARS

- **Kings College AI Society**   London, UK
  President - Python, TensorFlow, Keras   *Sept 2021 - Aug 2023*
    - Designed and led hands-on AI learning experiences for 100+ members, including weekly labs on machine learning, AI planning, and reinforcement learning; also built and deployed a Stable Diffusion web app and organised a custom Kaggle competition using a Spotify API-derived dataset for music emotion recognition
    - Organized **high-profile events** including ones with speakers from **NVIDIA** and leading researchers, as well as hosting **Google DevFest 2022** in partnership with the Google Developer Group London
    - Published technical articles on AI, including a featured piece on autonomous vehicles in **The London Financial**
- **Winner - IBM LabHack Hackathon:** Built a technical and business solution to increase and track biodiversity for IBM, which was adopted for use.
- **Winner - HackKings Hackathon:** Delivered an app to track and curb dangerous drinking habits for university students

INTERESTS

- Guitars & Music, Motorcycles, Classic Fiction, Bouldering, History and Travel