Kumar Amit Sinha

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EXPERIENCE

- **Concerto AI** — Bengaluru
  Senior Software Developer — *Mar 2021 - Present*
  - **Optimized** the bot's response time by **100%** through the removal of redundancies in legacy code and the creation of a new flow, which was deployed without any bugs and has received no reports of issues to date. Recognized as **MVP** for this achievement.
  - Designed and developed **advanced disambiguation techniques** within the bot's dialogue flow, resulting in a seamless user experience and a significant **30%** improvement in the accuracy of user input interpretation. Developed an intuitive interface that presents users with alternative options to ensure a smooth interaction.
  - Worked on user details **obfuscation functionality** to ensure **user privacy** and **data protection** in line with industry best practices.
  - Designed and implemented **high-quality, secure APIs** using **FastAPI** for insights screens that allow users to better understand their end users' interactions with our chat bot.
  - **Led a team of 4** in revamping the **database storage design**, including the creation of new database models, removal of old code, and implementation of an **asynchronous consumption** process utilizing Redis streams. Recognized as **MVP** for this achievement.
  - Ensured **compliance with HIPAA** requirements, enabling the company to foray into the healthcare sector with confidence.
  - Currently leading the design and implementation of a new feature allowing users to market themselves through **campaigns targeted at their ideal audience**, which is expected to have a significant **impact on user acquisition and retention**.
  - **Technologies used:** PYTHON, FastAPI, MongoDB, Redis, Docker, Jenkins, Sonarqube, JIRA, Bitbucket

- **Plabro Networks Pvt. Ltd** — Gurugram
  Member of Technical Staff — *May 2017 - Mar 2021*
  - Developed a machine learning model to predict market prices with **86% accuracy** for real estate properties, which was instrumental in helping agents price their properties correctly and **reduce spam listings**.
  - **Designed and implemented** the back-end for the company's core Android application, including **integrating payment and chat software development kits (SDKs)** to improve the user experience. Oversaw the entire product life-cycle from development to launch and beyond, ensuring that the application was always performing at its best.
  - Wrote many web crawlers which ensured we got enough real time data to train and test the models we built.
  - Developed a machine learning model and algorithm that could accurately predict if a commercial listing was going to become **vacant in the near future**, which helped agents plan their rental strategies more effectively.
  - Gained experience in **managing servers and containers** on a variety of platforms, including AWS, Google Compute Engine, and Docker, ensuring that our applications and data were always secure and accessible.
  - As part of the core team, managed a variety of non-technical processes such as **hiring, digital marketing, and offline sales**, demonstrating a versatility and adaptability that allowed me to thrive in a fast-paced environment with a small team.
  - **Embraced new challenges and stepped out of my comfort zone**, taking on both technical and non-technical roles with equal aplomb, which has helped me to develop a well-rounded skill set that is highly valuable in today's business world.
  - **Technologies Used:** PYTHON, MySQLDb, Django, Flask, AWS, GCE

SKILLS SUMMARY

- **Languages**   Python
- **Frameworks**   FastAPI, Django, Flask, Selenium, BeautifulSoup, Scikit, pandas
- **Databases**   MongoDb, MySQL, Redis
- **Platforms**   Linux, AWS, GCE, Docker
- **Soft Skills**   Leadership, Time Management

EDUCATION

- **Shiv Nadar University** — Greater Noida, India
  Bachelor of Technology - Computer Science; Minor: Mathematics — *Aug 2013 - May 2017*

- **Narayana Junior College** — Hyderabad, India
  Intermediate-Science; Passed - 91.4% — *Apr 2011 - May 2013*

ACADEMIC PROJECTS

- **Khoj - Natural Language Interface to Database** Shiv Nadar University
  B. Tech Final Year Research Project *Jan 2017 - Apr 2017*
  - Provided an web interface which could convert English questions such as 'wh' questions to Database queries using Natural Language Processing.
  - **Technologies Used:** PYTHON, MySQLDb, Django, Flask, AWS

- **HomeGo - Home Automation Project** Shiv Nadar University
  Academic project *Mar 2016 - Apr 2016*
  - As a group of 3, we created an android application which would act as an interface to communicate with the sensors attached to Arduino board.
  - It importantly had a PIR motion detector sensor which was attached to a camera, which would notify the user with an image if any movement is detected in front of the sensor.
  - **Technologies Used:** Arduino, Android, Python, Firebase

HONORS AND AWARDS

- Awarded **MVP of Engineering - Concerto** twice in 3 quarters - Jan 2022, Jul 2022
- Mentored my alma mater students in the SNU Hackathon 2019
- Runner-up in debate competition - Breeze'14

VOLUNTEER EXPERIENCE

- **Digital Learning Lab Coordinator** Gurugram
  iDream Education *Jul 2019 - Dec 2019*
  - Engaged with government and NGO-run schools as a dedicated team member, collaborating on the establishment and implementation of innovative Tablet-based Digital Learning Labs.
  - Facilitated comprehensive training sessions for both educators and students, empowering them with the essential knowledge and skills to leverage cutting-edge digital tools, fostering an enriched and interactive learning experience.

- **Member of Academic Affairs** Shiv Nadar University
  Student Senate *Jan 2015 - Jan 2016*
  - Served as a class representative, senate member, and academic committee member during college, representing the interests and concerns of the student body and contributing to the development of academic policies and programs.
  - Collaborated with academic committee members to create a mid-semester calendar and established guidelines for exam schedules to help students better plan their studies and reduce academic stress.
  - Demonstrated strong leadership, organizational, and communication skills while overseeing teams and collaborating with peers, faculty, and administrators to achieve successful outcomes.

- **Head of Hospitality** Shiv Nadar University
  Breeze Organising Committee *Oct 2015*
  - Held the position of Head of Hospitality during Breeze, the college festival that attracted 6,000 attendees, where I led a team of 35 members to ensure a positive and seamless experience for visitors and judges.