Ayan Banerjee

ayanbn7@gmail.com | 8016399022 | GitHub | Google Scholar | LinkedIn | CodeChef

EXPERIENCE

- **The D. E. Shaw Group** — Bengaluru, India
  Senior Member Technical (SDE2) — *Nov, 2021 - Present*
  - **Analyst View:** Built a different view for analysts, with custom restrictions, the ability to switch any user's view, admin view, desk view, etc. In the process, also built the base of a permission/authorization framework used throughout the code-base. Used **modern React** like **HoC**, **custom hooks**, and **compound pattern**
  - **Time Tracker Tool:** Built to track time spent in both our internal dashboard and external environments, moved an Excel-based workflow to the web portal. Expected to save **tens of hours of manual work** weekly.
  - **End-to-end development** of a product/feature including **requirements gathering**, **proposing solutions**, **development**, **building RESTFul APIs**, **presentation** to the users, addressing **user feedback/queries**
  - **Mentored an intern**, responsible for end-to-end ownership of the project, starting from project proposal, requirement gathering from business, technical mentorship, to the final presentation
  - Developed a **virtual persona AI tool** for strategy testing with colleagues and stakeholders, boosting efficiency as part of an internal hackathon. Introduced Avengers-inspired 'thinking-hat' personas for creative brainstorming. **Used and evaluated multiple LLMs like GPT4, Claude, and PaLM.**
  - **Technologies**: React, Redux, Springboot, Elastic Search, SQL Server, Python

- **Siemens Healthineers** — Bengaluru, India
  Software Developer — *Aug, 2020 - Oct, 2021*
  - Creating data pipelines which are used by reporting services.
  - Also worked on various PoCs including OCR, Kafka, and Deep Learning.
  - **Technologies:** SAS Technologies, Angular, Python, Git, Apache Kafka, Pytorch

- **Google Summer of Code Developer at The Virtual Brain** — Open Source
  International Neuroinformatics Coordinating Facility — *May - Aug, 2020*
  - Upgraded and fixed TVB-Gdist library, a library used to calculate distance in 3D space (GitHub).
  - **Technologies:** C++, Cython, Git, Continuous Integration, Unit Testing (Googletest, Pytest)

- **Google Summer of Code Developer at UCSC Xena** — Open Source
  University of California, Santa Cruz — *May - Aug, 2019*
  - Implemented support for more data formats for Xena Browser (https://xenabrowser.net) in an ETL (Extract Transform Load) pipeline (GitHub).
  - **Technologies:** Python, Pandas, Numpy, Git, Continuous Integration, Unit Testing (Pytest), AWS

- **Indian Institute of Technology Bombay** — Mumbai, India
  Summer Intern at FOSSEE under Prof. Kannan Moudgalya — *May - July, 2018*
  - Integrated a plagiarism detector with Yaksh, a course-taking application, used inside IIT Bombay and in Spoken Tutorial courses by thousands of students.
  - **Technologies:** Python, Django, Git, SQL, HTML, CSS, Bootstrap, Unit Testing

EDUCATION

- **National Institute of Technology Durgapur** — Durgapur, India
  B.Tech, Electronics and Communication Engineering, GPA: 9.27/10 — *Jul 2016 - Jun 2020*

PUBLICATIONS

- Mary J. Goldman *et al*, *"Visualizing and interpreting cancer genomics data via the Xena platform"*, May 22, 2020, Nature Biotechnology. (*Google Scholar*)

ACHIEVEMENTS

- Ranked **191**st among 8251 participants in CodeChef February 2018 Long Challenge.
- Ranked **1881**st among more than 150,000 participants in CodeChef (Best Ranking, Sept, '18, Best Rating 2027 (**5-star**)).

SKILLS

- **Proficient In**: JavaScript, Java, Python, ReactJS, Backend Technologies (Django, Springboot), C, C++, Data Structures and Algorithms, Version Control System (git), Object Oriented Programming, DBMS
- **Exposure**: PyTorch, NodeJS, Docker, LaTeX