MEGH PARIKH

EDUCATION

International Institute of Information Technology, Hyderabad

B.Tech. (Honours) in Computer Science & Engineering

Aug~'15 - July~'19 Cumulative GPA: 8.61/10

EXPERIENCE

Senior Software Developer | Bloomberg - New York

July '22 - Present

- · Technologies: C++, Python, Library-Development, Metaprogramming, Apache Arrow, DuckDB, Rust
- <u>Led</u> the development of a <u>Python Data Provider SDK</u> leveraging <u>C++ and Apache Arrow</u>
 - + Enabled rapid onboarding of datasets with analytics powered by in-house C++ library
 - + <u>Innovatively</u> developed using Python decorators for low maintenance and great DevX.
 - + Bindings work with modern Python features asyncio, dataclasses and typing
- · Co-developed an inhouse high-performance C++ embedded analytics engine
 - + Utilized modern C++ metaprogramming to streamline kernel development.
 - + Designed as a <u>flexible and performant library</u> adaptable to time-series, geospatial, and other use cases.
- Developed a <u>DuckDB</u> extension for <u>Cassandra</u>
- $\underline{\text{Leading discussions}}$ to standardize $\underline{\text{observability recording}}$ for analytical applications
 - + Developed tooling for this to diagnose data and performance issues
- <u>Innersource contributions</u>:
 - + Added support for TIME_INTERVAL data-type in the Rust driver for in-house database Comdb2
 - + Wrote a Doxygen preprocessor generating around 50% of the docs within Bloomberg

Software Developer | Bloomberg - London

Aug '19 - July '22

- Technologies: C++, Python, Distributed Systems, LLVM
- Worked on the TickerPlant infrastructure which collects and processes <u>time-sensitive market events</u>
- Developed tooling to diagnose <u>latency</u> issues in the <u>queues</u> and responsible for on-call support of the same
- · Helped migrate upstream teams to a new data format with custom LLVM tooling
- · Migrated Python bindings for the C++ codebase to new infrastructure while preserving the API

PREVIOUS EXPERIENCE

- · Built a <u>real-time collaborative editor</u> for graphical documents with offline support.
- Integrated with the open-source vector graphics app SVG-Edit.

Google Summer of Code – GNOME [C, GLib, GTK, Linux Kernel APIs] | Apr '16 - Aug '16

- · Worked on GNOME Games an emulator app, to add gamepad/game controller support
- Developed a library for abstracting the Linux Input API and integrated it with GNOME Games

- · Maintained & deployed institute-wide infrastructure and services (LDAP, Squid, Email, lists, NS, etc)
- · Migrated a monolith PHP app to a service-based architecture with dockerized deployment

Undergraduate Researcher | CVIT – IIIT Hyd | Deep Learning, PyTorch | July '17 - July '19

- · Worked with Prof CV Jawahar on Document Semantic Structure Extraction to aid blind students
- · Worked on face recognition and automated analysis of news videos & bias detection

SKILLS & RELEVANT COURSES

- · Skills: C++, Rust, Python, Systems Programming, Data-Oriented Design
- · Secondary Skills: Mentoring, Leading Projects, Tooling Development
- · Core Courses: Data Structures, Algorithms, Computer Networks, Information Security
- · Advanced Courses: Distibuted Systems, Operating Systems, Database Systems, Compilers