Atreya Bain

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Internships

May - Aug, 2021 Jan - Jul, 2020 (Project)	**Design and Improvement of HSQL: HPCC Structured Query Language**, *Lexis-Nexis Risk Ltd.*, Atlanta, US (Remote). ○ Design of HSQL, A SQL and BigQuery inspired language for querying and using HPCC Systems (A Big Data Processing Platform) to help data scientists get started with HPCC Systems quickly ○ Implementation of a transpiler for HSQL to translate it to ECL, a declarative programming language used in HPCC Systems ○ Implement a language server and an IDE extension for HSQL support ○ Improvements on the existing compiler to separate syntax checking and code generation ○ Adding newer features to the language such as functions and modules
Sep - Nov, 2019	**Backend Development Intern**, *Revagram(Startup)*, Bengaluru. ○ Worked with team on design of the backend platform and database ○ Worked with creating and managing API routes

Projects

Jul 2020 - Present	**Design and Development of a website for IEEE RVCE Student chapter**. ○ Working with team on design of the backend platform and database ○ Working with creating and managing of RESTful API routes ○ Management and automation of deployments using Docker
May - Sep, 2019	**Design and Development of a Web-based Distributed Filesystem**. ○ Developed a system for storing files on a distributed node setup ○ Developed a Web UI to manage a given cluster of nodes ○ Developed a Fuse-based filesystem driver to access and work with files from the filesystem natively.
Sep - Feb, 2020	**Design and Development of a Web File Browser**. ○ Developed a light-weight web file browser for managing files in a remote server, aimed for rapid deployments.

Technical Skills

Languages	Typescript, JavaScript, Java, Rust, Python, C, PHP, CSS, HTML
DBMS	MySQL/PostgreSQL, MongoDB
Technologies	Docker, AWS, git
General	Compiler Design, Web Development, Data Structures

Education

Jul 2018 - Present	**B.E. - Computer Science**, *R. V. College of Engineering*, Bengaluru. CGPA(Sem. 6):*9.03*
Grad. May 2018	**Grade 12**, *Deeksha Integrated PU College*, Bengaluru. Grade:*87.5%*
Grad. May 2016	**Grade 10**, *Baldwin Boys' High School*, Bengaluru. Grade:*93.17%*

Languages

○ English   ○ Hindi   ○ Bengali

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