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Shaurya Gupta

Education

2016 – 2020 **Indian Institute of Technology Patna**, Bachelor of Technology in Computer Science and Engineering, GPA: 7.94/10.0.

Work experience

- Jan 2020 – **Haskell Consultant, Juspay**, Remote.
- Present
- Created Medea - a JSON schema language along with a reference implementation in Haskell.
 - Writing a PureScript to Haskell transpiler.
 - Wrote the AST as well as transformations based on the AST.
 - The transpiler is being used to port the entire payments platform (hundreds of modules) to production ready Haskell.
- June 2019 – **Software Engineering Intern, Google**, Munich, Germany.
- Aug 2019
- Worked with the C++ Tools Team on *clangd* - an open source C++ IDE engine (part of the LLVM project).
 - Implemented Automated C++ Extract refactorings that can move a piece of code to a new variable or function.
 - The project mainly involved working with C++ internals and performing static code analysis using the Clang AST.
- May 2018 – **Tech Intern, D.E. Shaw India**, Hyderabad.
- June 2018
- Worked with the *Equities* team on *Efficient Information Retrieval from SEC Filings*.
 - Wrote a blazing fast distributed parser in Python.
 - Devised an efficient algorithm to prevent data duplicity. Used MySQL as well as various libraries such as Numpy, Pandas, etc. for data manipulation and analysis.
 - Wrote scripts for a CLI interface and scheduling periodic runs in Python and Bash.
 - Achieved $\approx 50\times$ speed improvement over the existing Perl module for the entire pipeline.

Achievements

- ACM-ICPC WF '19** Member of team ButterRoti which was ranked 2nd in Asia Pune-Gwalior Regional Contest - 2018 and got an honorable mention at the ACM-ICPC World Finals 2019 (Porto).
- ACM-ICPC WF '18** Member of team ButterRoti which was ranked 56th (out of 140 teams) in ACM-ICPC World Finals 2018 (Beijing) and 2nd in Asia Kolkata-Kanpur Regional Contest - 2017.
- Comp Coding Candidate Master(Purple) on Codeforces and 6-star(Orange) on Codechef.
- TCC 2017 Stood 6th in the onsite finals of Topcoder Collegiate Contest 2017.
- JEE Adv Secured 98.74 percentile out of 150,000 candidates in JEE Advanced. (2016)
- KVPY Recipient of the Kishore Vaigyanik Protsahan Yojana (KVPY) Scholarship by Govt. of India and IISc. Bangalore with an **All India Rank - 242** among 0.1 million candidates. (2016)

Projects

- Jan 2018 – **Maze Generator**, (C++).
- Feb 2018
- Implemented various 2D maze generation algorithms such as Prim's algorithm, Eller's algorithm, Wilson's algorithm and Kruskal's algorithm.
 - Implemented a CLI as well as GUI interface along with exporting capability.
- May 2017 – **MyRating WebApp**, (Python, Django, HTML, CSS).
- July 2017
- Web app that aggregates competitive programming ratings from different websites.

Technical Skills

Languages C, C++, Haskell, OCaml, PureScript, Coq, Scala, Python, Java, JavaScript, Shell, SQL

Tools and Libraries Nix, Clang Tooling, LLVM, GTest, Docker, Git, L^AT_EX, Django, Flask, OPENG3, Vim

Courses

Computer Science Advanced Algorithms, Network Science, Artificial Intelligence, Operating Systems, Networks, Computer Graphics, Databases, Computer Architecture, Formal Language & Automata Theory, Algorithms.

Mathematics Linear Algebra and ODE, Real and Complex Analysis, Partial Differential Equations, Discrete Mathematics, Probability Theory, Computational Topology, Algebra.

Others Introduction to Haskell (CIS194)

Positions of Responsibility

- 2017 – 2019 **Coordinator, Competitive Programming, NJACK(Computer Club)**
- Wrote problems for ByteRace, the annual online coding competition of IIT Patna.
 - Conducted lectures on C++, Algorithms and Data Structures for students.
- 2018 – **Mentor, Institute Student Mentorship Programme**
- Present
- Academic guide to four freshmen year students over the period of two years.