Aarush Bhat

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Education

Vellore Institute of Technology, Vellore   **Jul 2019 – Jul 2023**
B.Tech in Computer Science and Engineering   *8.37, CGPA*

Experience

Dyalog Ltd.   **Jan 2023 – Present**
- Programming Language Developer and Tester working on Dyalog APL. (C, APL, Compiler Design, Testing)
- Introduced the Folding Range feature into the Haskell Language Server.

Google Summer of Code, Haskell   **May 2022 – Oct 2022**
- Student Mentee at Haskell Foundation. (Haskell, Compiler Design, Language server, LSP)
- Introduced the Folding Range feature into the Haskell Language Server.

Summer of Bitcoin   **Jul 2021 – Sept 2021**
- Open source Mentee at MIT-DCI utreexo under the mentorship of Calvin Kim and Tadge Dryja. (GoLang, Bitcoin)
- Authored support for signet and other significant improvements to help scale bitcoin.

MSquare Labs   **May 2021 – Jul 2021**
- Full stack developer at The Tasks App. (TypeScript, React, SSG, Apple Design System)
- Worked with the Design team to create the website and blog for The Task App.

Byte Avenue   **Mar 2020 – Dec 2020**
- SDE Intern, part of the Frontend Team. (JavaScript, React, Redux, Material UI)
- Member of the founding team and worked on the initial iterations of the coding platform.

CodePark   **Sept 2019 – Mar 2020**
- Frontend Developer. (Javascript, React, SCSS)
- Worked on the web platform and internal tools and managed marketing campaigns.

Open Source Contributions

Haskell Language Server: Official haskell ide support via language server (LSP).
lfortran: LFortran is a modern open-source interactive Fortran compiler built on top of LLVM.
utreexo: A dynamic hash based accumulator designed for the Bitcoin UTXO set.

Skills and Interests

Programming Languages: APL, Bash, C, Cpp, Go, Haskell, JavaScript, Python, TypeScript
Technologies: Compiler Design, linux, llvm, eBPF, Blockchain, Web Development
Languages: English, French, Hindi, Kashmiri
Interests: Coffee, Formula 1, Mechanical Keyboards

Leadership / Extracurricular

Technical Head, IEEE-VIT   **Dec 2019 – Dec 2022**
- IEEE-VIT is one of the most active Technical Student bodies representing the IEEE organisation as a chapter on the Vellore Institute Of Technology campus.
- Responsible for Technical growth of 70+ members in the organisation inculcating and promoting the Open Source Software culture and good development practices.
- Developed software for events and projects used by 15000+ participants in 100+ countries.

Publications

A Unique Approach to Malware Detection Using Deep Convolutional Neural Networks   **Nov 2022**
- H Malani, A Bhat, S Palriwala, J Aditya, A Chaturvedi (2022). *IEEE 2022 4th International Conference on Electrical, Control and Instrumentation Engineering 2022.* Kuala Lumpur, Malaysia

Certifications

Cyber Crime Intervention Officer, ISAC and National Security Database India   **July 2022**
- The CCIO is a volunteer registered with NSD who can assist the victims and local law enforcement agencies with technical support and legal advise for resolution of cyber crimes as a First Responder.

Achievements

- Awarded the Chancellor's Special Achievers Award by VIT Vellore.
- Won MIT Bitcoin Hack (Cambridge, May 2022), DevSoc (Vellore, April 2021), DevSpace (Vellore, March 2021), and KUHackfest (Kathmandu, Feb 2021).
- Mentor, Speaker and Judge at Sparkathon 2021 - A 4-day Hackathon by NMIMS, Navi Mumbai.
- Awarded Distinction in Trinity College London in Rock and Pop Guitar Grade 2(Nov 2016), Trinity College London Rock and Pop Guitar Initial Grade(Nov 2015)
- Awarded the CBSE Certificate of Merit for outstanding performance in SSC Examination.