

PRATHIK ANAND KRISHNAN

✉ prathikanand7@gmail.com

☎ +91-9003939327

📍 Bangalore, India

🌐 LinkedIn

🐙 Github

@ My Portfolio

PERSONAL SUMMARY

Innovative Software Developer excelling in solution optimization and real-world problem-solving. Enjoys brainstorming on different design patterns and high-performance systems. Thrives in Agile environments, delivering scalable software with strong ownership. Committed to excellence from concept to deployment.

EXPERIENCE

Software Developer - G3

09/2022 – Present

ARUP – Hyderabad

- Developing a **C++ static library SDK** to facilitate seamless integration between two existing applications.
- Leveraged the **Abstract Factory Design Pattern** to develop the SDK and streamlined its deployment as a **NuGet** package. Implemented the **Steel Thread concept** to ensure robust end-to-end system visualization and functionality.
- Worked on **Backend C++ development** for an MFC application, implementing **Custom UI features** and successfully delivered **60+ JIRA tickets**, enhancing overall application functionality and user experience.
- Implemented **Test-Driven Development (TDD)** practices with Catch2 and Google test frameworks achieving **96% code-coverage**.
- Collaborating with a **global team spread across 4 different time-zones** and ensuring timely delivery of objectives.

Assistant Engineer

01/2020 – 08/2022

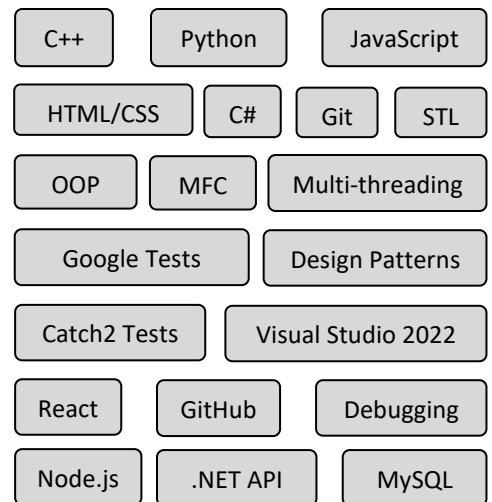
ATKINS – Bangalore

- Developed a **Python GUI application** using functional programming to design, and analyze structural analysis results, **achieving a 70% adoption rate**.
- Contributed to QA for the Astrid HTML/CSS tool, identifying **7 critical bugs**. Also developed a **PowerBI PM tool**, increasing the **project efficiency by 40%**.

PROJECTS

- [VanillaVision - Twin Pricing Engine](#): Implemented lock-free data structure for pricing engine to do direct comparison between analytical and simulation results.
- [ConcurrentCandle - Trading Orderbook Simulation Suite](#): Leverages the power of multi-threading to process orders in parallel to mimic real-time trading activity.
- [Black-Scholes Option Pricing Model Web App](#): Built with HTML/CSS and integrated into Python using NumPy, Streamlit, Matplotlib, and Seaborn to display interactive heat-maps for Call and Put Option prices.
- [My personal portfolio Web App](#): Hosted on GitHub Pages, leverages automatic deployment through GitHub Actions.

TECHNICAL SKILLS



CERTIFICATES

- [Mastering critical C++17 skills](#)
- [Harvard CS50 - Free Computer Science University Course](#)
- [Programming with JavaScript](#)
- [Advanced React Concepts](#)

EDUCATION

Master of Engg., Structural Engineering

BITS Pilani, Hyderabad, India

08/2018 – 08/2020

LANGUAGES

English:



Hindi:



Tamil:

