

# PRATHIK ANAND KRISHNAN

✉ prathikanand7@gmail.com

in LinkedIn

☎ +91-9003939327

🐙 Github

📍 Bangalore, India

@ My Portfolio

## PERSONAL SUMMARY

Skilled Software Developer with **over 3.5 years** of experience in **Modern C++ and Python**. I thrive in Agile environments, consistently delivering scalable software with strong ownership from concept to deployment. **Driven to expand expertise in building high-performance systems and practical design patterns.**

## EXPERIENCE

### Software Developer - G3

09/2022 – Present

ARUP – Hyderabad

- Worked on **Backend C++ development** for a high performance 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**.
- Currently developing a **C++ static library SDK** to facilitate seamless integration and enhance interoperability between two proprietary applications.
- Leveraging 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.
- Collaborating with a **global team spread across 4 different time-zones** and ensuring timely delivery of objectives.

### Assistant Engineer

01/2020 – 08/2022

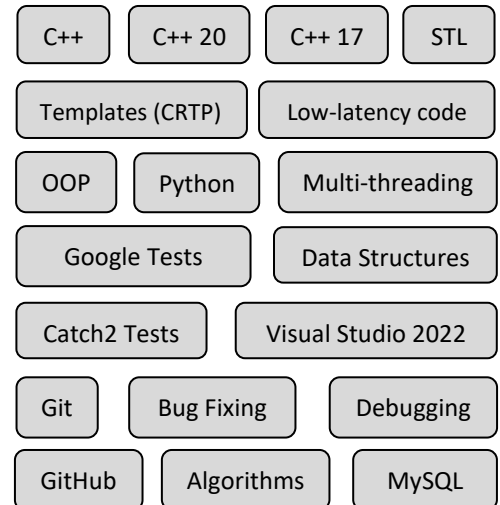
ATKINS – Bangalore

- Developed a **Python GUI application** using functional programming to design, and analyze structural analysis results, **achieving a 70% adoption rate**.

## PROJECTS

- **[VanillaVision - Twin Pricing Engine](#)**: Implemented using **lock-free data structure** for pricing engine to do direct comparison between **analytical and simulation results**. Highlighting the difference in performance and accuracy.
- **[ConcurrentCandle - Trading Orderbook Simulation Suite](#)**: Leverages the power of multi-threading to process orders in parallel. It also simulates random order generation 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: ████████

## SOFT SKILLS

Problem Solving, Continuous Learning, Adaptability, Communication, Flexibility, Collaboration & Teamwork