

# PRATHIK ANAND KRISHNAN

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@ 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

- Developed **backend features for an MFC application in C++**, implementing custom UI enhancements and resolving **60+ JIRA tickets** to improve functionality and user experience. Applied Test-Driven Development (TDD) with Catch2 and Google Test frameworks, **achieving 96% code coverage**.
- Currently developing a **C++ static library Adapter** by using **Factory Design Pattern**, deployed as an internal **NuGet** package to enable seamless integration between two proprietary applications.
- Collaborating with a **global team spread across 4 different time-zones** and ensuring timely delivery of objectives.

### Assistant Engineer

01/2020 – 08/2022

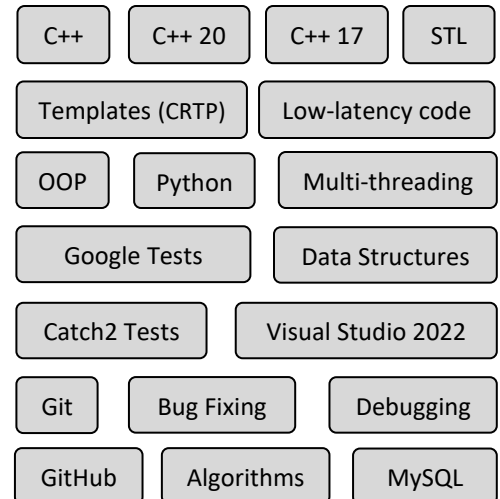
ATKINS – Bangalore

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

## PROJECTS

- Order Execution & Management System to trade on Deribit using C++17**: OEMS is a **High-performance C++17 application** for low-latency interaction with the Deribit test platform, offering **REST API** access to all the crypto symbols and a **WebSocket server** for client subscriptions.
- VanillaVision - Twin Pricing Engine**: Implemented **lock-free C++ 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 Python using NumPy, Streamlit, Matplotlib libraries to display **interactive Call and Put option heatmaps**.
- Babylon.js 2D Shape Extrusion and Manipulation**: Lets users draw 2D shapes, extrude them to 3D, and manipulate them by moving or editing vertices.
- My personal portfolio React 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