PRATHIK ANAND KRISHNAN

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in 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.

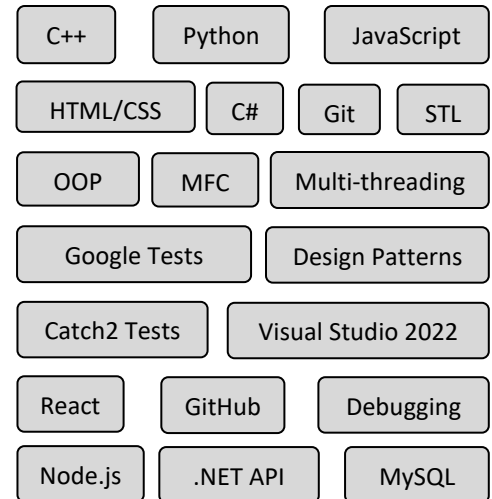**Assistant Engineer**   01/2020 – 08/2022

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

C++ | Python | JavaScript | HTML/CSS | C# | Git | STL | OOP | MFC | Multi-threading | Google Tests | Design Patterns | Catch2 Tests | Visual Studio 2022 | React | GitHub | Debugging | Node.js | .NET API | MySQL

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