Prathik Anand Krishnan

+91-9003939327 | prathikanand7@gmail.com | LinkedIn | Github | My Portfolio

Personal Summary

I like solving real-world problems, driven by the challenges of optimizing solutions. I enjoy brainstorming designs, patterns, and performance improvements, and take pride in owning tasks and delivering them to the best of my abilities.

Technical Skills

Languages: C++, Python, JavaScript, HTML/CSS
Technologies/Frameworks: MFC, Catch2, Google Test, React, Node.js, Tailwind
Developer Tools: Git, VS Code, Visual Studio, Github, Azure, Eclipse
Database: SQLite, MySQL, MongoDB

Experience

ARUP Sep 2022 – Present
Software Developer - G3 *Bangalore*

- Working on **two C++** feature development for **Oasys - GSA** Finite Element Analysis Structural Software
- Working on **Backend C++ APIs** and have delivered around **60+ JIRA tickets**
- Test-Driven Development (TDD) with **Catch2 and Google test frameworks** having **97%** code-coverage
- **Front-end** development for sidebars and dialog boxes using**Vue 3, HTML/CSS and JS**

ATKINS Jan 2020 – Aug 2022
Assistant Engineer *Bangalore*

- **Python + Tkinter tool** to draw, analyse and show results of Retaining Walls, had a adoption rate of **70%**
- **Astrid tool (HTML/CSS)** - Was part of the QA/QC team, reported around **7 critical bugs** and improved UI
- **RMS Project Management Interface PowerBI Tool** - Improved overall project efficiency by **40%**

INFOSYS Feb 2018 – Jul 2018
Systems Engineer *Mysore*

- Learnt **Python, DSA, MySQL** and did a mini project to build an e-commerce console application

Education

BITS Pilani Hyderabad, India
Master of Structural Engineering *Aug 2018 – July 2020*

Certificates

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

Projects

VanillaVision: Twin Pricing Engine | *C++14* | August 2024

- Utilized Modern C++ for developing the core logic of input parameters
- Implemented lock-free data structure for Twin pricing engine

ConcurrentCandle: Trading Orderbook Simulation Suite | *C++14* | June 2024

- Simulates random order generation to mimic real-time trading activity.
- Leverages the power of multi-threading to process orders in parallel

Black-Scholes Option Pricing Model Web App | *Python, HTML/CSS* | August 2024

- Crafted with HTML/CSS, seamlessly integrated into Python, utilizing powerful libraries including NumPy, Streamlit, Matplotlib, and Seaborn.
- Displays both Call and Put option prices using an interactive heat-maps

My personal portfolio Web App | *React, JavaScript, HTML/CSS* | September 2024

- A detailed overview of my roles and responsibilities in software development using responsive design
- The web app is hosted on GitHub Pages and leverages automatic deployment through GitHub Actions