

# Prathik Anand Krishnan

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## TECHNICAL SKILLS

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**Languages:** C++, Python, JavaScript, HTML/CSS

**Technologies/Frameworks:** C++, MFC, Catch2, Google Test, React, Node.js, Tailwind, MySQL

**Developer Tools:** Git, VS Code, Visual Studio, Azure, Eclipse

**Database:** MySQL, MongoDB, SQLite

## EDUCATION

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**Birla Institute of Science and Technology**

*Master of Structural Engineering*

Hyderabad, India

*Aug. 2018 – July 2020*

**Amrita Vishwa Vidyapeetham**

*B.Tech in Civil Engineering*

Coimbatore, India

*Aug. 2013 – July 2017*

## EXPERIENCE

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**ARUP**

*Software Developer*

Sep 2022 – Present

*Hyderabad*

- Authored two C++ feature development for **Oasys - GSA, Finite Element Analysis Structural Software**
- Worked on an **API design architecture** and modularised old C++ code base to modern standards
- Test driven development using **Catch2 and Google testing frameworks** to design reusable and reliable code
- Front-end development of sidebar and dialog boxes using **Vue 3, HTML/CSS and JS**

**ATKINS**

*Assistant Engineer*

Jan 2018 – Aug 2022

*Bangalore*

- Python GUI tool for Design of retaining wall – **Python + Tkinter tool along with OOP concepts** to draw real time Retaining Wall sketch using user inputs
- RMS Pipeline Project Management Interface **VBA Tool** – This tool was further integrated in Power BI to make tracking more robust
- Astrid tool (HTML) – I was part of the **QA/QC** team, responsible to reduce bugs and improve UI of Astrid website

## CERTIFICATES

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- [Mastering critical C++17 skills](#)
- [Introduction to Front-End Development](#)
- [Programming with JavaScript](#)
- [Advanced React Concepts](#)
- [HTML and CSS in depth](#)

## PROJECTS

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**Calculator App** | *HTML, CSS, React, JavaScript* | [🔗](#)

June 2024

- Developed a simple web application using JavaScript and with React as the front-end
- Utilised react hooks to work on user's data and perform the calculations

**React Portfolio** | *HTML, CSS, React, ChakraUI, JavaScript* | [🔗](#)

June 2024

- Developed a user portfolio as part of the coursera Advanced React course work
- Created a fully functional responsive UI utilizing react hooks and methods
- Simulated an API call using react hooks from form submission
- Implemented component based programming

**Restaurant Landing page** | *HTML, CSS* | [🔗](#)

June 2024

- Developed a Restaurant portfolio as part of the coursera HTML/CSS course work
- Created a fully functional responsive UI utilizing tailwind CSS