

Abhiram Prasanna

+91 8447737510 • abhiramprasanna2003@gmail.com • LinkedIn-Abhiram Prasanna • Github-Abhiram Prasanna •

OBJECTIVE

I have experience in data visualization using Python libraries (Matplotlib, Seaborn, PySpark), image restoration, and LLVM-based code optimization. Proficient in Chisel for digital systems design, with a strong interest in serverless computing and Function-as-a-Service (FaaS). I'm also eager to explore research opportunities in Chisel and LLVM.

EDUCATION

PES University

Bangalore, Karnataka

GPA: 8.21/10.0

BASE PU(SENIOR SECONDARY)

Bangalore, Karnataka

2021

PERCENTAGE: 94.83

PROJECTS

Lane Detection |

- Contributed to a Lane Detection project by integrating Canny Edge detection techniques for enhanced accuracy and precision.

Chisel(Hardware Description) |

- While working under Professor Arrvinth Shriraman at Simon Fraser University, I designed a neural network neuron with customizable activation functions, utilizing 16-bit fixed-point inputs and outputs with 8 fractional bits

Google Cloud functions |

- Developed and deployed Google Cloud Functions for streamlined data read and write operations with a cloud storage bucket.

Sentiment Analysis |

- Developed Python code for sentiment analysis on user-provided .wav audio files

EXPERIENCE

Software Intern | TATA ADVANCED SYSTEM

May 2023 - Aug 2023

- Benchmark Testing Setup:** I established a dedicated testing environment with a range of hardware setups, including different CPU and RAM configurations, to ensure a comprehensive evaluation
- OS Installation and Configuration:** I installed and configured multiple OSes, including ClearLinux and Ubuntu
- Benchmark Testing:** Using specialized benchmarking tools, I conducted thorough tests to measure Native and Real Time performance of kernels of Clear Linux and Ubuntu.

Engineering Intern | Yogaya

Sep 2023 - March 2024

- Serverless Application Development:** Immersed in crafting serverless applications on Google Cloud, gaining a deep understanding of the platform's architecture.
- Focused Chatbot Development:** Specialized in creating a domain-restricted chatbot, involved in its design, development, and implementation.
- Created a Questionnaire Engine using MERN Stack:** Designed, developed, and implemented a robust questionnaire engine utilizing the MongoDB, Express.js, React.js, and Node.js (MERN) stack. Handled database management, backend logic, and frontend interface development to create a comprehensive solution for generating and managing questionnaires.
- Multifaceted Utility:** Delivered multifaceted outcomes, improving operational efficiency and effectiveness, from real-time information to data-driven decision support.

Mentee | Simon Fraiser University

Aug 2023 - March 2024

- Under the guidance of Professor Arrvinth Shriraman, I specialized in Chisel, gaining expertise in its applications for Verilog and FIRRTL conversion. Additionally, I developed a solid understanding of LLVM, enhancing my proficiency at the intersection of hardware design and compiler technology.