Saikiran Belana

Portfolio: belanasaikiran.github.io
Github: github.com/belanasaikiran

Email: saikiransanju22@outlook.com
Mobile: +91-770-2777-069

SKILLS SUMMARY

- **Languages:** JavaScript, Bash, Python, YAML, SQL, Arduino C
- **Frameworks:** ReactJs, NodeJS, Django, Material UI, Tailwind CSS, EJS, Yocto
- **Tools:** Kubernetes, Docker, GIT, Jenkins, Vagrant, Yocto Project, MongoDB, Cosmos DB, Figma, Illustrator, Send Grid, EC2, S3, Azure VMs, VSCode
- **Platforms:** Linux, Web, Windows, Arduino, Raspberry, AWS, Azure, Slurm Workload Manager, Vivado
- **Soft Skills:** Leadership, Event Management, Writing, Public Speaking, Time Management

EXPERIENCE

LightSpeed Photonics — Full-time
Full Stack Developer (Full-time) — *Jan 2023 - Present*

- **Company's Official Website**: Responsible for building the company's portfolio website including hosting, cloud databases, CDNs, and email services using ReactJs, Azure functions, Azure CDNs and SendGrid API Integration.
- **Platform to deploy and access multiple FPGA devices in HPC Cluster**: Working on creating a web platform using Slurm Workload Manager to deploy applications on FPGA HPC Cluster & provide cloud developer access.
- **Distributed Computing on Intel FPGAs using OpenCL (PCIe)**: Distribute Computation of scalable matrix multiplication on Intel Arria 10 multiple FPGAs using OpenCL - planning to use Optical Interconnect
- **Benchmarking the performances between standard CPUs and Multi-FPGA devices**: Benchmark the kernel execution performance for CPUs, single FPGA device, and multi-FPGAs using OpenCL

LightSpeedAI Labs — Full-time
Full Stack Developer — *Sept 2021 - Dec 2022*

- **Platform to deploy FPGA applications**:
  - Deployed Intel FPGA-based Docker Images to On-premise Kubernetes with Webhooks & connecting to Azure Kubernetes Service to run FPGA apps remotely.
  - Coordinated with Interdisciplinary teams to understand FPGA-based applications for building CI/CD pipelines and developing user-friendly real-time web apps for application deployment on FPGA hardware.
  - Contribute to the overall software development life-cycle including requirements gathering, analysis, design, development, release/version control(Git), testing, and deployment.
  - Design web application flows by creating quick prototypes of wireframes and UI components using BalsamiqCloud & Figma.
  - Built Restful API services using NodeJs & ExpressJs to run FPGA-based applications with Bash Scripts. Address complex issues for real-time apps with WebSockets connectivity.

LightSpeedAI Labs — Full-time
Software Intern — *Apr 2021 - Aug 2021*

- **Embedded OS development & running video analytics applications**:
  - Generated Petalinux OS images for Xilinx FPGA MPSoC boards
  - Automated bash scripts for image generation
  - Deployed instances & virtual network interfaces for sub-netting multi instances, and managed code-commit repositories on AWS
  - Built a GUI to demonstrate video analytics on custom EdgeAI Acceleration Hardware

EDUCATION

Jawaharlal Nehru Technological University — Hyderabad, India
Bachelor of Technology - Information Technology; GPA: 6.97 — *July 2016 - June 2020*

Courses: *Operating Systems, Web Technologies, Data Structures, Software Engineering Project Management, Data Communication and Networking*

PROJECTS

- **DevOps Tools & Scripts (Kubernetes, Docker, Jenkins, Remote VNC, NGINX)**: (2022 - GitHub)
- **LightSpeed Photonics and Portfolio websites (ReactJs, NodeJs, ExpressJs, CosmosDB, Azure CDNs, Azure functions, and Github)**: (2022 - Portfolio)
- **Web Terminal using web sockets (Tech: ReactJs, NodeJs, ExpressJs, MongoDB**: (August, 2022 - Github)
- **Twitter Sentimental Analysis (Academic) (Tech: Python, Twitter API)**: (May - Nov, 2019 - GitHub)

CERTIFICATIONS

- : Docker Mastery: with Kubernetes + Swarm from a Docker Captain - Bret fisher
- : The Complete Web Development Bootcamp - Angela Yu
- : Intel OneAPI Hackathon - 2023

Volunteer Experience

- **Student Volunteer at Literacy Helping Hands**
  Conducted online and offline technical skills to students at villages.
  Hyderabad, India
  Nov 2016 - Mar 2019

- **Community Volunteer at Maker Faire Hyderabad**
  Volunteered as a student guide at maker faire - science exhibition.
  Hyderabad, India
  Nov 2019

- **Fundraiser marathon at Airtel Marathons**
  Supporter for runners at marathons and also as bicycle marshal.
  Hyderabad, India
  Nov 2018, 2019, 2021