

YASH ANAND

Software Engineer

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I am a seasoned software engineer with a passion for web applications, programming languages and systems. I have delivered high-quality solutions for both enterprise and startups. With a Master's from a top CS school, brandishing a skillset that cuts across all aspects of the field, I'm poised to take on any software engineering challenge headed my way.

HONORS

Director's Scholarship

Carnegie Mellon Univ. (2022)

Special Recognition Award

Shell (2022)

VP CIO Award

Shell (2021)

Service Recognition Award

Shell (2021)

EDUCATION

Graduating in Dec 2023

Master of Software Engineering

Carnegie Mellon University, School of CS

CGPA: 3.9/4 • Pittsburgh, PA, U.S.A

Courses (Carnegie Mellon Univ.)

Compiler Design, Software Architecture,

Intro to Computer Systems, Web Apps,

Formal Methods, Advanced Formal Methods

Graduated in May 2019

Bachelor of Technology in Information Technology

Vellore Institute of Technology

CGPA: 8.5/10 • Vellore, India

Experience (Carnegie Mellon Univ.)

Teaching Assistant for Web Apps Development

Course Developer for Web Apps Development

Teaching Assistant for Software Architecture

EXPERIENCE

Jul 2019 - Jul 2022

Software Engineer

Shell

Bangalore, India (On-site)

- Improved performance (latency) of org-wide skills management application by 70%.
- Implemented mission-critical software for managing projects, resources, and security incidents across the organization and pioneered a CI/CD initiative for the platform.
- Winner of org-wide VP CIO Award in May 2021, and Service & Special Recognition Awards.

Sep 2018 - Jul 2019

Lead Software Developer

Vicara

Vellore, India (Part-time, Hybrid)

- Solely developed the desktop user interface for a wearable gesture controller called Kai.
- Lead software team for a product that raised over \$100k via crowdfunding on Indiegogo.
- While simultaneously pursuing an undergraduate degree, built the entire web eco-system including UI component libraries, product website, auth intermediary, and many more.

Feb 2017 - Feb 2019

Software Development Intern

AppSecure

Vellore, India (Part-time, Remote)

- Single-handedly developed and designed multiple security-based SaaS apps during the start-up's foundational years while simultaneously pursuing an undergraduate degree.
- Pivotal work that contributed to start-up's listing in Forbes 30 under 30 Asia in 2017.
- Built a web app (rakshak.io) that was acclaimed at the RISE Conference in 2018.

PROJECTS

Carnegie Mellon • 2023

WASM Dynamic Analysis

WebAssembly, Virgil

- Augmented dynamic analysis and instrumentation tools to support displaying metrics alongside source WASM bytecode for a research WebAssembly engine called Wizard.
- Experimented and evaluated performance overhead of instrumentation in the engine.

Carnegie Mellon • 2023

C Compiler

OCaml, x86, WebAssembly

- Within a semester, wrote a memory-safe optimizing compiler for a subset of the C language (called C0) achieving performance on par with the industry-standard GCC (-O1).
- Features included strings, function pointers, arrays, structs, and a WebAssembly target.

Carnegie Mellon • 2023

Dynamic Memory Allocator

C, Linux API

- Implemented a high-performance dynamic memory allocator surpassing the efficiency of C's standard malloc package for a diverse set of program traces.
- Achieved rank 1 performance & utilization in 15213 summer '23 class of 150 students.

Carnegie Mellon • 2022

Chesster

JavaScript, Django

- In just a few days, built a fully-functional online chess multiplayer game that featured in-game spectators, chat and a global live feed of top-spectated games.
- Challenged ourselves by using vanilla JavaScript for complex asynchronous interactions.

Vicara • 2019

Kai Control Center

Angular, JavaScript, Electron

- Solely built a cross-platform desktop app for a wearable gesture controller called Kai.
- Product (Kai) eventually raised over \$100k via crowdfunding on Indiegogo.
- Built critical modules to deliver software patches to devices's entire software eco-system.

Top Skills

Web Applications

Functional Programming

Systems Programming

Dynamic Analysis

Languages

C / C++

JavaScript

x86 Assembly

OCaml

Python

WebAssembly

Tools/Technologies

Vim

React

Angular

Django