Berin Aniesh

SIMULATIONS / SOFTWARE ENGINEER

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Summary

- Simulations / Software engineer with 3+ years of experience with real world software systems.
- Proven proficiency in all stages of web development, machine learning and software engineering.
- Organized, self motivated and versatile with 15+ completed projects that are used in production.
- All rounded knowledge in computers from operating systems to computer networking.

Work Experience

Kenfra Research
Marthandam, Tamil Nadu

ML ENGINEER / BACKEND DEVELOPER — *Sep. 2022 - Present*

- Built, trained and deployed five ML projects for clients with end-to-end solutions, including data preprocessing, model selection, hyperparameter tuning, and integration into production environments..
- Improved the loading times of one of the internal tools by 20% through optimizing queries and database indexing.
- Building a B2B application, used by publication companies to improve their process time by streamlining and automating data flow.

VerseQuick.com
Worldwide

FOUNDER & DEVELOPER — *Sep. 2023 - Present*

- Built the backend using rust and actix-web.
- Built the frontend using javascript and SvelteKit.
- Provisioned linux servers for databases, frontend and backend. Deployed the whole stack with nginx reverse proxy / load balancer.
- Setup CI/CD pipelines for automatic testing and deployment of the frontend and the backend
- Setup Google Analytics, Google Tag Manager and optimized the site for SEO.
- Working on adding features like user login and note taking with custom microservices.

Pepcoding Ltd.
Noida, Uttar Pradesh

PRODUCT ENGINEER — *Sep. 2021 - Apr. 2022*

- Administered Linux Servers in AWS cloud to maintain an uptime SLA of 99.9% for nados.io
- Instructed a batch of 30 students in subjects of DSA and DBMS successfully.

Skills

Programming	Python, Rust, Go, Java, Dart, Javascript, LaTeX
Web / Mobile	SvelteKit, NextJS, TailwindCSS, Flutter, Laravel
Build Systems	Gradle, Meson, CMake
Databases	PostgreSQL, MySQL/MariaDB, Redis, MongoDB
OS / DevOps	Linux, Bash, Systemd, AWS/GCP, Nginx, Docker, Jenkins, GitHub/GitLab CI, WireGuard
Simulations	OpenMC (Monte Carlo / Neutronics), GEANT4, OpenFOAM, Ansys Fluent, Ansys MAPDL, Comsol MultiPhysics
Neural Networks	CNN, U-Net (Example), GAN (Example), Transformers

Education

Pandit Deendayal Energy University
Gandhinagar, Gujarat

M.TECH IN NUCLEAR SCIENCE AND TECHNOLOGY — *Sep. 2019 - Aug. 2021*

- Specialized in Neutronics and Monte Carlo Simulations and passed out with a GPA of 9/10.
- Completed a project to calculate the heat flux of a CANDU reactor with a margin of error of 15% from the experimental values.

MEPCO Schlenk Engineering College, Anna University
Sivakasi, Tamil Nadu

B.E IN MECHANICAL ENGINEERING — *Aug. 2014 - Apr. 2018*

- Specialized in Computational Fluid Dynamics simulations and passed out with a GPA of 8.01/10.
- Completed a project in CFD Species Transport in Gasification reactions, predicting the optimum equivalence ratio and verifying the same experimentally.
- Presented the same in a multi disciplinary conference at Malaya University in 2019.
- Led the students' math club for a period of one year, conducting two workshops and 14 events including math competitions, guest lectures and doubt clarification sessions.