# Berin Aniesh

SOFTWARE ENGINEER

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## Summary

- Four years of hands on 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.

## Work Experience

**Kenfra**  *Marthandam, Tamil Nadu*
ML ENGINEER / DEVELOPER  *Sep. 2022 - Present*

- Built, trained and deployed numerous Deep learning / AI 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 (DotNet, MySQL) 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*
PROJECT CREATOR & DEVELOPER  *Sep. 2023 - Present*

- Built the backend using rust and actix-web.
- Built the frontend using javascript and SvelteKit.
- Provisioned linux servers for kubernetes, which hosts databases and microservices for the frontend and the backend.
- Setup CI/CD pipelines for automatic testing and deployment.
- Setup Google Analytics, self hosted Google Tag Manager and optimized the site for SEO.

**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

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|---|---|
| **Programming** | Python, Rust, Go, Java, C#, Dart, Javascript, LaTeX |
| **Web / Mobile** | React/NextJS, Svelte, VueJS, TailwindCSS, Flask/FastAPI, Flutter, DotNet, Laravel, NodeJS |
| **OS / DevOps** | Linux, Bash, AWS/GCP, Docker, Kubernetes, Jenkins, ArgoCD, GoHarbor, GitHub/GitLab CI, WireGuard |
| **Neural Networks** | CNN, U-Net (Example), GAN (Example), YOLO (Example), Transformers, LLMs, Pytorch / Tensorflow |
| **Databases** | PostgreSQL, MySQL/MariaDB, Redis, MongoDB |
| **Build Systems** | Gradle, Meson, CMake |
| **Simulations** | OpenMC (Monte Carlo / Neutronics), GEANT4, OpenFOAM, Ansys Fluent, Ansys MAPDL, Comsol MultiPhysics |

## 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.