Neel Deshmukh

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EDUCATION

JAIHIND COLLEGE
Bachelor in Computer Science
May 2021 | Mumbai, MH
CGPA: 8.91 / 10

VIVA COLLEGE
Higher Secondary Certification
Feb 2017 | Mumbai, MH
Percentage : 66.77%

HOLY CROSS CONVENT SCHOOL
Secondary School Certification
March 2015 | Mumbai, MH
Percentage : 62%

SKILLS

Languages:
Typescript • JavaScript • Python
NodeJs • Html/CSS • Flask • Express
Testing Tools:
Chai • Mocha • Sinon • Ts-Mockito
Cloud:
GCP • Github Actions • Cloud Functions
Cloud Spanner • Firebase
Databases:
SQL • Firestore
Version Control:
• Git • Github
Familiar:
AWS • Java • Android • NO SQL

SOFT SKILLS

• Active Listening
• Effective Async Communication
• Work Ownership
• Empathy
• Give and Take Feedback
• Team Management

CERTIFICATIONS

• Database Engineering
• Ethical Hacking
• Advance Cyber Law

INTERESTS

• Trading • Startups
• Reading Books • Tech blogs.
• Marvel • Star Wars •Dragon Ball

EXPERIENCE

CEREBRANIUM | Software Engineer
May 2021 - Current | Berlin, DE | Remote
Promexa - Digital Assessments from anywhere.
- Worked on a scalable, event-driven batch-processing job for a Computer Vision video proctoring system to enable processing of up to 8000 exam videos daily. Later brought video processing time down by approx. 77%. which in turned decreased processing cost by 50%.
- Devised an on-demand service leveraging serverless architecture of Google Cloud Functions, decreasing server costs by 80%.
- Helped migrate database from NOSQL(Firebase) to SQL(Cloud Spanner).
- Introduced automated E2E test, with improved 50% unit test coverage as well.
- Refactored spaghetti code into clean code following hexagonal architecture (clean arch) with best industry practices, standardized Test-Driven Development with API Documentation.
- Developed an Adaptive Question Paper generation through progressive model and difficulty calibration that saved 80% of the faculty time on Promexa.
- Implemented Personalised Engagement Driven analytics for learners and educators.

Myracle - XR learning experiences in the world around you.
- Setup the entire backend infrastructure for new product, with multiple environments, automated test on code integration, continuous delivery pipelines, error monitoring using sentry, and documented the entire process.
- Designed and deployed database to collect and process learner information.
- Came up with cost effective cloud solution that would smoothen video production process, which reduced video rendering time by approx. 87%.
- Setup sendgrid for email marketing and email notifications using sendgrid apis.
- Volunteered to help unity developers design and implement pub/sub model.
- Managed a 5-member (backend, frontend, unity) team and coordinated with product owners toward the successful launch of the product.

PROJECTS

INSHORT BHARAT - NEWS APPLICATION | Github | Learn More
- News Application designed on top of **python, flask, jinja2 and mysql database**, to serve seamless news for readers.
- added feature likes fake news classification, news summarization, sentiment analysis, **news dictation**, **offline support** with **service workers**.
- **Dashboard** to publish news, edit news and archive news articles.
- Readers can bookmark and favourite their news articles for later references, **multiple languages support**.

THUNDARR VPN - ANDROID APPLICATION | Github
- ThundarrVPN that lets user safely connect to the internet anywhere in the world, Application was built keeping users in mind, with **mobile first approach**.
- ThundarrVPN utilises **ics-openvpn** built on top of open-vpn.
- Application has features like, authentication, **cloud storage** to store files safely, **chatbot** for user support, **password generation**, **usage report** and **speed test**.
- PayTm payment gateway was also integrated for donation support.
- Tech used - **Java, Android, Self hosted OpenVpn Servers on AWS, Ics OpenVpn**