

Kshitij Dhyani (TJ)

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SKILLS SUMMARY

- **Languages:** Java, CSS, C/C++/C#, **JavaScript (ES5/ES6)**, HTML, Python and **Typescript**
- **Frameworks:** **NodeJS**, MongoDB, VueJS, **ReactJS**, NextJS, **Redux**, GraphQL, **PostgreSQL**
- **Tools:** **Git**, JSON, **AWS**, REST APIs, Linux, **Docker**, WebGPU, Serverless, GCP, **MySQL**
- **Skills:** Agile, **CI/CD**, Snap.js, **WebGL**, gRPC, RESTful, Micro-services, **SVG.js**, SCRUM

EXPERIENCE

Washington University in St. Louis - Senior Application Engineer

May 2024 - Present

Missouri, U.S.A

- **Resolved:** 7+ distinct performance bottlenecks in a distributed software architecture for large-scale deployments. Extended build system to integrate with cloud for higher cost efficiency, cutting cost burden to the company by **17%**.
- **Visualized:** past **200+** years of judicial records. Curated extensive data sets. Employed **data analysis** measures to predict judicial decision-making behavior. Utilized **statistical modeling** methods to model judicial activism.

Decision Theater - Arizona State University (ASU) - Front-End Engineer

September 2022 - May 2024

Arizona, U.S.A

- **Optimized:** legacy code implementations - accelerated software performance by **20%**. Scaled products leveraging Typescript, **React.js**, Vite, Mongoose, Docker, **Redux**, K8s for horizontal scaling, and BitBucket for version control.
- **Built:** and led design, development, and maintenance of scalable and high-performance products **E2E** from identifying system requirements to software implementation, **testing**, and configuring metrics, alarms, monitors, and dashboards.
- **Deployed:** and integrated a multi-staged CI/CD pipeline with version locking and roll-back capabilities, performed **code review**, curated **documentation**, implemented load/stress testing, and **unit/integration/e2e** testing.

Rivian Automotive - Software Developer Intern

May 2023 - December 2023

Illinois, U.S.A

- **Developed:** in a cross-functional manner with a team of **9 people** and enriched existing system metrics by **17%**. Increased projected annual revenue by **\$1.3 million** by implementing optimized business logic through code.
- **Developed:** and designed scalable, distributed low latency, and high throughput fleet management systems with continuous integration and deployment capabilities. Harnessed K3s, **Kinesis**, HBase, **Terraform**, and Cassandra.
- **Deployed:** a total of **133** vision solutions across the factory, reduced cycle-time by **23%**. Designed platform and service architecture employing enterprise integration patterns. Adopted **Google Cloud**, TensorFlow, PyTorch, and Firebase.
- **Engineered:** the UI/UX of software products using user-centric design methodologies. Integrated **A/B testing** to validate design changes which led to a **19%** increase in user retention and a **14%** increase in user engagement.

PROJECTS

- **GradBro (link):** Get personalized university recommendations based on your profile and test scores. Supports a user base of **1500+ users**. Tech: **Firebase**, Selenium, **LLMs**, OAuth and Software Development Life Cycle (**SDLC**) (January 2023).
- **A M I G O S (APIs, MVC Design Patterns) (link):** (User base of **2000+**) Pairs students over a video chat-room for ice-breaking. Tech: Webpack, RealmDB, **SCSS**, DynamoDB, **Test-Driven Development (TDD)** (October 2023).
- **Synth-Corn (AI/LLM) (link):** Programmed a platform where users can chat to AI OF models. Tech: **AWS AppSync**, Redis, AWS lambda, Three.js, and **VPSs** (March 2023).
- **B.Tech Blueprint (Cloud native systems) (link):** (Facilitated more than **5000+ students**) Implemented a blueprint to structure credits and subjects during B.Tech Degree. Total usage statistics upwards of **10000+ hours**. Tech: **Redux**, EC2, Bootstrap, S3, **NPM/Yarn**, JS Object Model, **WebAssembly** and CloudWatch (January 2023).

EDUCATION

- **Arizona State University (ASU), Tempe** Arizona, U.S.A
Master in Science - Computer Science - Data Structures and Algorithms (CGPA 3.89) August 2022 - May 2024
- **Vellore Institute of Technology (VIT), Vellore** Tamil Nadu, India
Bachelor's in Information Technology - DBMS, Operating Systems (CGPA 3.99) July 2018 - July 2022