

# KSHITIJ DHYANI

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## SKILLS SUMMARY

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- **Languages:** JavaScript (**ES5/ES6**), Python, C, **Typescript**, C++, CSS, HTML, Dart, **JSON** and Yaml.
- **Frameworks:** **Node.js**, Express.js, MongoDB, Vue.js, **React.js**, Flutter, Next.js, **Firestore**, GraphQL, MySQL
- **Tools:** **Git**, GitLab, Postman, **AWS**, REST APIs, Linux, Material UI, **Docker**, Jira, Kubernetes, Azure
- **Skills:** Front-end, **Agile**, Back-end, Unit testing, Micro-services, **CI/CD**, SCRUM, Kanban, **DevOps**

## EXPERIENCE

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**Software Engineer - Decision Theater Lab - Arizona State University (ASU)** Arizona, U.S.A  
*Part-time* September 2022 - Present

- **Developed:** and collaborated 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.
- **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.

**Software Developer Intern - Rivian Automotive - Electric Adventure Vehicles** Illinois, U.S.A  
*Full-Time* May 2023 - December 2023

- **Developed:** and designed scalable, distributed, low latency, and high throughput fleet management systems with continuous integration and deployment capabilities. Harnessed K3s, Docker, OAuth, **Terraform**, and Node.js.
- **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 **AWS**, TensorFlow, PyTorch, and Firebase.
- **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.

**Software Developer - Bluesapling Technology Pvt Ltd** Bangalore, India  
*Full-Time* March 2020 - August 2022

- **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 company by **17%**.
- **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

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Shared hyperlinks for all projects.

- **Amigos (APIs, MVC Design Patterns) (link):** (User base of **2000+**) Pairs students over a video chat-room for ice-breaking. Tech: **Webpack**, Tailwind CSS, NGINX, SCSS, jQuery, Test Driven Development (TDD) (October 2023).
- **Good-morning Girlfriend (Automation) (link):** Programmed a platform automating the delivery of daily greetings, enhancing UX and reducing user's cognitive load. Tech: **Redis**, SQL, **AWS lambda**, Javascript, and NPM (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: **EKS**, EC2, Bootstrap, S3, **ECR**, DynamoDB, Object Oriented Programming (OOPS), **CloudWatch** and Cypress (January 2023).
- **Study Buddy (Back-end, Python)(link):** Automated creation of chat groups to enhance communication and collaboration between students and teachers, benefiting over **8000+** students throughout the academic semester. Employed technologies such as Django, GCP, **Angular.js**, Jenkins, SQL, **Restful APIs**, and Software Development Life Cycle (**SDLC**).(August 2022).

## EDUCATION

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