

# DHANANJAI CHAND

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## Professional Experience

### HubSpot

Software Engineer

Remote

Aug 2024 – Present

- Spearheaded the development of code-mods using **TypeScript and NodeJS** to automate migration of **200+ frontend applications** from an outdated UI library to a modern one, reducing manual effort by **60%** and accelerating timelines by **4 months**.
- Enhanced a plugin-based system integrated with local editor software, leveraging **ESLint rules** to identify and surface necessary migrations, documentation links, and quarterly migration deadlines, reducing manual **tracking overhead by 50%** and cutting **migration errors by 20%**.
- Developed and maintained Monarch, a **React, TypeScript, and Java** based migration tool, to streamline the assignment of security and other compliance-related tasks across HubSpot's product organization, enabling seamless tracking via Jira and GitHub.
- Contributed to Mothership, an automated migration platform that executes large-scale code transformations across multiple repositories, utilizing **React, TypeScript, and Webpack**.

### Commure

Software Engineer

Mountain View, CA

July 2024 – Aug 2024

- Built end-to-end modules for a **cloud-native** Electronic Health Record (EHR) platform that streamlined clinical intake, encounter documentation, and data integrity by delivering React UI components, Python FastAPI services, and PostgreSQL data models across the full development lifecycle.
- Shipped high-impact features, including CPT-code autocomplete, provider profile management, cross-profile note forwarding, and a system-wide audit log, which improved documentation **accuracy, traceability, and onboarding speed for clinical staff**.

### Tesla

Software Engineer (P2)

Fremont, CA

Jun 2023 – Jun 2024

- Spearheaded development and global launch of Tesla Watchlist application, centralizing security information into a unified platform across **1000+ locations**, significantly enhancing efficiency for **2500+ Security and HR personnel** by reducing the time for security checks and vetting processes.
- Led frontend development of a web application from ground up using **React, Express, Typescript, and Webpack**, adopting a client-side SPA architecture with advanced state management to create focused, modular, and reusable components using **Redux, React Router**, context, reducers, and hooks.
- Enhanced application with 10+ features, including multi-language support, activity history, incident management, and integration workflows, leading to **40% Q/Q growth** in app usage.
- Tailored application's UI/UX by constructing diverse role-based views to cater to different user types, including admin, limited, and support, thereby improving **daily active users by 35%** and making system more lightweight, engaged, and performant.

### Walmart

Software Development Engineer III Intern

Sunnyvale, CA

May 2022 – Aug 2022

- Constructed a UI design library for React Components deployed across Walmart's web platform by leveraging **React, TypeScript, Nx, and Storybook** to facilitate component visualization and interactive prototyping.
- Empowered teams with a comprehensive view of **25+ components** and their functionality, creating variations of components in terms of stories, including the ability to interact with and modify React components in real-time.
- Automated and performed auditing of shared UI components, improving visual consistency and reducing overall maintenance overhead by streamlining the process for a more cohesive developer experience.

### Salesforce

Associate Member of Technical Staff

Hyderabad, India

Jun 2020 – Jul 2021

- Facilitated engineering of a B2B CPQ (Configure, Price, Quote) solution through **UI/UX development, SDK creation, and Q1/Q2 testing** that helps manage sales by generating and processing accurate opportunities, quotes, and orders.
- Implemented many crucial front-end features in the solution using **React and Typescript**, including catalog browsing, product & price configuration, multisite ordering, and asset management.
- Improved backend operations with caching and optimizing payloads using **Java and Spring Boot**, achieving a **25% reduction** in API response times, which supported successful handling of product versioning and bundling related APIs.

Software Engineering Intern

May 2019 – Aug 2019

- Developed a **Python-based** data collection and anomaly monitoring tool to provide in-depth information on the health of database hosts by utilizing data from various sources, including Argus, iDb, and Coolan.
- Presented extracted information through a custom **data analytics dashboard** by leveraging Salesforce Einstein AI Platform and offered diverse features, such as API Integration, Actionable widgets, and Salesforce Lightning Platform compatibility.

## Publications

- "TSCTNet: Traffic Signal and Countdown Timer Detection Network for Autonomous Vehicles", **D. Chand**, S. Gupta, I. Kavati, IJCISIM, Vol. 13, pp. 182-191, August 2021 [[Publication Link](#)]
- "Computer Vision based Animal Collision Avoidance Framework for Autonomous Vehicles", S. Gupta, **D. Chand**, I.

Kavati, CVIP, Vol. 1378, pp. 237-248, December 2020 [[Publication Link](#)]

- “Computer Vision based Accident Detection for Autonomous Vehicles”, **D. Chand**, S. Gupta, I. Kavati, INDICON, October 2020 [[Publication Link](#)]
- “Computer Vision-based Accident Detection in Traffic Surveillance”, E.P. Ijjina, **D. Chand**, S. Gupta, K. Goutham, ICCCNT, July 2019 [[Publication Link](#)]

## Education

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### University of Southern California

*Master of Science in Computer Science, GPA: 4.0/4.0 (Honors)*

Los Angeles, CA

*Aug 2021 – May 2023*

### National Institute of Technology, Warangal

*Bachelor of Technology in Computer Science and Engineering, GPA: 8.72/10*

Warangal, India

*Aug 2016 – Aug 2020*

## Technical Skills

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**Languages:** JavaScript, TypeScript, Python, C#, Java, C/C++, HTML/CSS

**Frameworks:** React, Angular, NodeJS, Express.js, .NET, NextJS, Spring Boot, Flask, RxJS, Jest, Docker, Nx

**Other Skills:** GCP, AWS, Azure, PostgreSQL, MySQL, MongoDB, GraphQL, Hadoop, Unix, Git, Jenkins

## Awards and Achievements

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Achieved **1st place** for Income Inequality and Diversity Category in TrojanHacks

*Nov 2021*

**Winner** of Make-A-Thon 12.0 among 250+ participants in Makerswave Hackathon

*Feb 2020*

Attained **1st position** in INK Makeathon, among 300+ participants, organized by INK Corporation

*Oct 2018*

**Hosted** workshop titled ‘Computer Vision 101’ for 400+ students, NIT Warangal

*Sep 2019*