

Tarandeep Mandhiratta

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SKILLS

- JavaScript | TypeScript | Java | Python | Node.js | React | Express | SQL | MSSQL | PostgreSQL | NoSQL | Vue | jQuery
- Cloud Computing | AWS | GCP | CI/CD | Git | Jest | Testing | Docker | Lambda | OOP | API | ML | AI | PHP | NN | NLP
- Microservices | Distributed Systems | Frontend | Backend | Full-Stack | Agile | Deep Learning | Computer Vision

WORK EXPERIENCE

Software Engineer H.H. Angus & Associates *Toronto, Canada* **01/2023 – Present**

- Led a team of five to design and develop a **React/TypeScript** sensor dashboard with **AWS IoT Core, Kinesis Firehose, AWS Lambda, Node.js, Docker, and CI/CD**, contributing to \$3.3 million in annual revenue.
- Developed scalable **APIs** using **CakePHP, ORM and MySQL** for efficient data management in VintagePoint, automating tasks to save system admins over 20 hours weekly and boost productivity for 100+ project managers.
- Led critical **bug fixes, UI enhancements**, and testing in ARMS, a SaaS product, using **Vue.js, Node.js, and MongoDB**, which resolved key issues impacting over 1,000 users and significantly enhanced product stability and user experience.
- Engineered backend for the "Auto Room Naming ML Tool" using **AWS SageMaker, XGBoost, Docker, Lambda, orchestrated via Step Functions, JWT** for session management, boosting processing by 30% and accuracy by 80%.

Software Engineer Ideate Systems India *Pune, India* **05/2020 – 08/2021**

- Managed the development of a **React/TypeScript** web app with **Node.js** for a college, integrating **AWS** for user management and S3 for file sharing, cutting manual file handling by 90% for 20 professors and 500+ students.
- Communicated a new **CI/CD** deployment process to 50+ employees, leveraging **AWS CodePipeline, CodeBuild, and GitHub**, cutting deployment time by 60% and minimize errors, vastly improving team efficiency and consistency.
- Architected and deployed a full-stack management platform for a major hotel chain using **Jest, PostgreSQL, Express, React, and Node.js**, leveraging **AWS**, boosting operational efficiency by 40% and revolutionizing guest experience.

Software Engineer Co-op H.H. Angus & Associates *Toronto, Canada* **05/2022 – 12/2022**

- Reported directly to CPO:** Led the design and development of a building analytics platform using React, Node.js, and AWS, providing visual insights on operational efficiency, used by senior leadership for key decision-making.

Software Engineer intern Ideate Systems India *Pune, India* **11/2019 – 05/2020**

- Continuous integration/deployment pipeline integration, code reviews, pull requests, and **unit testing**.

Software Development Engineer Intern Luxerra Technophile *Pune, India* **01/2019 – 05/2019**

- Built scalable web apps with React, Node.js, and **Express**, ensuring responsive design and improving user engagement.

Software Engineer intern AVIG Techdraitions *Pune, India* **06/2018 – 10/2018**

- Developed a cloud-based API backend using **PHP and Google Cloud**, improving system reliability and speed.

LEADERSHIP EXPERIENCE

Dev Club President H.H. Angus & Associates *Toronto, Canada* **05/2023 – Present**

- Mentored non-technical members in **Agile and React** to develop an energy app for sustainability initiatives.
- Organized a company-wide hackathon with 20+ participants, resulting in 5 new tools that improved internal processes.

Hackathon Team Lead ICEM *Pune, India* **08/2018**

- Led the team to develop an Alexa integration using **Python and NLP** for voice-commanded code writing.
- Won first place** among 50+ teams by directing team strategy, task delegation, and implementing NLP-based features.

EDUCATION & CERTIFICATIONS

Master of Applied Computing Wilfrid Laurier University *Waterloo, ON, Canada* **09/2021 – 04/2023**

- Awarded Graduate Masters Studentship; Instructional Assistant: OOP, System Programming.

Bachelor of Engineering in Computer Savitribai Phule Pune University *Pune, India* **05/2016 – 05/2020**

- Awards: Academic Merit Scholarship; Activities: Computer Society of India, Incubation Team ICEM.

AWS Certified Cloud Practitioner Amazon Web Services **07/2022**

PUBLICATIONS

- Intelligent Detection of MEP Metrics Based on 2D Floor Plans (Under review, **IEEE Access**, 2024)
- Implementation of Smart Helmet using IoT and NLP (Int. J. of Research and Analytical Reviews, 2020).
- System and Architecture Design for Smart Helmet using NLP and Peripheral Sensor System (MJRET, 2020)