Kedar Prabhakar Dhere

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Education

- **Oregon State University** — Corvallis, OR
  Master of Science in Computer Science; GPA: 3.79. — *Sep 2021 - Dec 2023*
  Courses: *Software Engineering Methods, Database Management Systems, Parallel Programming, Cloud Application Development, Analysis of Algorithms, Computer Architecture, Human-Computer Interaction, Machine Learning*
- **Savitribai Phule Pune University** — Pune, India
  Bachelor of Engineering in Electronics & Telecommunication; GPA: 3.70. — *Jul 2013 - Jun 2017*

Skills Summary

- Programming Languages: JavaScript, Python3, C++, Swift (iOS), TypeScript, Java
- Web Development: Node.js, React, REST APIs, Odata, HTML, CSS, OAuth 2.0
- Databases and Tools: MySQL, MongoDB, PostgreSQL, GraphQL, Git, XCode, VSCode, Figma, SAP CAI
- DevOps, CI/CD & Project Management: CI/CD integration, GitHub Actions, Swagger, Docker, Agile, Scrum, Jira, HP-ALM
- Certifications: AWS Developer Associate

Work Experience

- **Graduate Teaching Assistant** — Sep 2021 - Dec 2023
  Oregon State University — *Corvallis, OR*
  - Tutored 60+ students in **Python backend development**, including verification, validation, black-box and white-box testing, and **test-driven development**. Also guided students through code reviews and CI pipeline integration.
- **Software Engineer** — Dec 2019 - Jul 2021
  Accenture — *Pune, India*
  - Revamped backend services and optimized high-performance CRM web dashboard, resulting in a **$110,000** per annum cost savings and a **20%** decrease in average call handling time for customer representatives.
  - Collaborated with **cross-functional** teams to identify and address potential bottlenecks in the data replication process across **3 backend systems**, significantly improving overall system performance.
  - Led a team of three in root causing over **90%** of middleware issues, ensuring high data integrity, reducing tickets by **30%.**
  - Developed and deployed production-quality code for **30+** functional modules, reports, and APIs by accurately capturing customer requirements single-handedly over a span of two years, resulting in an increase in overall system efficiency.
  - Applied **MVC** architecture to create high-quality and testable web dashboards.
  - Received the **Tech Star** award from Accenture for outstanding performance, contributing to a boost in team productivity.
- **Associate Software Engineer** — Oct 2017 - Nov 2019
  Accenture — *Pune, India*
  - Collaborated with a **12**-person Agile team to develop and maintain a user-friendly CRM interface for a North American utility client, resulting in improved customer satisfaction, user experience and retention.
  - Coordinated with clients and third parties throughout the **Agile SDLC stages**, ensuring seamless integration of requirements, design, development, testing, and acceptance of the CRM system.
  - Enhanced web services integrated with SAP backend by implementing **REST APIs**, enabling an omnichannel user experience for **1 million customers**. This resulted in increased customer engagement and streamlined business processes.
  - Automated data queue monitoring by developing ABAP scripts, resulting in a **90%** reduction in manual effort.

Projects

- **Income Prediction** *(Python, Scikit-learn, Pandas)* [GitHub] — *Oct 2023 - Nov 2023*
  - Engineered a k-Nearest Neighbors (k-NN) classifier from scratch, achieving a 14.1% development error, and further leveraged Scikit-learn's tools to optimize preprocessing, resulting in enhanced predictive performance for a 5,000 dataset.
  - Streamlined data preprocessing for a dataset of 5,000 entries using Pandas and Scikit-learn, applying scaling and OneHotEncoding to numerical and categorical variables, respectively, to enable efficient machine learning model training.
- **Flow Magic** *(iOS Application, Node.js, Express, React)* [GitHub] — *Sep 2022 - Sep 2023*
  - Engineered a **Full Stack** solution with a Swift Package incorporating MVVC architecture to enhance code maintainability. This solution enabled easy screen updates in mobile apps without new releases.
  - Developed and deployed a server application using **Node.js and Express** to streamline data handling and user requests.
  - Established a **90%** code-coverage testing framework with **Jest**, and ensured ongoing code quality through **code reviews and GitHub Actions**-integrated CI/CD pipelines.
  - Implemented a **React**-based web portal with intuitive drag-and-drop capability using React-Flow.
- **Tarpaulin** *(MERN, RESTful APIs, Docker, Authentication)* [GitHub] — *Mar 2022 - Jun 2022*
  - Developed **Node.js and Express** backend for course administration, enabling teachers to manage courses.
  - Utilized **MERN** stack to construct RESTful APIs, secured with **JWT token**-based **authentication** and containerized backend services for deployment via **Docker.**
- **AutoMotion** *(C++, OpenGL)* [GitHub] — *Oct 2021 - Dec 2021*
  - Developed a backend system in **C++** using OpenGL to produce an animated automotive scene with high-quality graphical output for an immersive user experience.
  - Exercised comprehensive understanding of **pointers and GPU** to manipulate objects in the scene along with per-fragment lighting techniques for realistic shading, enhancing visual appeal.