PURVA ZINJARDE

San Francisco, CA | job.purva@gmail.com | (408)-748-6815 | LinkedIn |Portfolio | Google Scholar | Photography

SUMMARY

Software Engineer with 5+ years of experience delivering high-impact, scalable software across diverse environments. Skilled in full-stack development, performance optimization, and leading cross-functional teams for 1.5 years. Dual Master's degrees in Computer Science. Selected for Google's CS Research Mentorship Program, pursuing research under expert mentorship.

SKILLS

Backend: Go, Typescript, Python, Java, Node.js, C/C++, C#, Flask, Spring, PHP, REST APIs
Frontend: JavaScript, Vue.js, React.js, Next.js, AngularJS, HTML/CSS
Databases and Cloud Services: MongoDB, MySQL, Oracle, SQL, AWS, GCP, Docker, Kubernetes
Operating Systems and Tools: Linux/Unix, macOS, Git, Jupyter, Unity, Tableau, Figma, Bitbucket, JIRA, Postman, IntelliJ, VS Code
AI/ML Tools & Libraries: TensorFlow, PyTorch, Scikit-learn, Keras, NumPy, Pandas, NLTK, SciPy, Matplotlib, Seaborn

PROFESSIONAL EXPERIENCE

SOFTWARE ENGINEER | San Francisco State University, San Francisco, CA   Dec 2023 – Mar 2025
- Built a modular VR system for post-earthquake structural damage assessment, achieving **95% accuracy** & minimizing on-site inspections.
- Developed training and evaluation features using **Unity** and **C#**, using object-oriented design and reusable components.
- Improved runtime efficiency by **28%** through performance tuning and scalable architecture rollout to **50+** HMD users.

RESEARCH SCHOLAR | Google, Mountain View, CA   Feb 2023 - Jun 2023
- Investigated fairness analysis of AI models using custom surveys of **50+ participants**, designed and tested **3 prototypes** to reduce bias in AI models.
- Shared findings in weekly research reviews, influencing internal approaches to **bias mitigation.**

SENIOR SOFTWARE ENGINEER | Maharashtra Knowledge Corp. Ltd., Pune, India   Jul 2017 - Dec 2021
- Developed end-to-end solutions for an e-learning platform using **Go, Vue, Python,** and **MongoDB**.
- Led a team of **6** engineers to launch a revamped learning workflow in **3 months**, improving accessibility for **400,000+** students and driving a **23%** revenue uplift.
- Directed migration to remote learning during COVID-19, enabling uninterrupted access for **150,000+** students.
- Designed a comprehensive drill-down dashboard, enabling **real-time** access to platform-wide metadata, reducing developer support requests by **78%** and accelerating issue resolution.
- Redesigned monolithic architecture to **microservices** and **distributed designs**, improving deployment efficiency and platform scalability.

LECTURER OF CYBERSECURITY | University of Pune, Pune, India   Jun 2018 - Dec 2020
- Delivered lectures to **100+** students on cybersecurity, network protocols, and threat models, designed interactive labs to enhance practical learning.

PROJECT INTERN | Omniscient Software, Pune, India   Dec 2016 - Jul 2017
- Developed and integrated a new dashboard to the fintech app using **Java**, **Spring**, and **MySQL**, leading to a **21% increase** in user engagement through expanded analytics and account tracking capabilities.
- Maintained system stability through rigorous **unit testing, benchmarking**, and **troubleshooting**.

EDUCATION

Master's, Computer Science | San Francisco State University (GPA: 3.85 / 4.0)	**Dec 2023**
Master's, Computer Science | University of Pune (GPA: 3.98 / 4.0)	**Apr 2017**
Bachelor's, Computer Science | University of Pune (GPA: 3.5 / 4.0)	**Apr 2015**

ACHIEVEMENTS

- Published **2 research papers** on **ML model comparison tooling** and **immersive VR training**: MECpace, a tool for comparing embedding spaces, and VREE, a 3D VR environment for structural damage assessment.
- Received the **Distinguished Achievement Award** for **Academic Excellence** among top performers across graduate cohorts.
- Awarded **2 scholarships** for **academic excellence**, graduating with top honors in both Master's and Bachelor's programs.

PROJECTS

Autograder Plugin: Reduced grading time by **65%** using **Java** and **AWS** by building a plugin for automated testing in tech courses.
STEM Data Automation: Built a **Python** pipeline that accelerated STEM data processing by **70%**, eliminating manual bottlenecks and errors.
GatorJobs: Created a skills-based job matching platform with **Node.js, Flask, MySQL**, and **GCP**, connecting **200+** students to relevant roles.
VREE: Created an immersive VR training tool in **Unity** and **C#** that enabled engineers to identify structural damage with **95% accuracy.**
Blossom: Developed a responsive mental health app using **React** and **D3.js**, enhancing accessibility and **UX** through **HCI** principles.
Genetic Risk Prediction Engine: Designed a medical transcript analysis tool that achieved **92% accuracy** in predicting hereditary disease risk factors.
Pixels: Launched a photography portfolio with **Next.js, TypeScript**, & **TailwindCSS**, having **500+** images with optimized delivery & cloud hosting.
Metastatic Cancer Detector: Applied **SVM**, **CNN**, **KNN** classifiers getting **>90% accuracy** in detecting metastatic cancer from histopathologic scans.