

PRATIK GURUNG

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Work Experience

Stanford University

Palo Alto, CA

Software Engineer Intern

May 2023-Aug 2023

- Analyzed neural stem cell data with Python using JupyterLab, Pandas, and NumPy, enabling actionable insights into cell behavior.
- Applied clustering algorithms, K-mapping, and UMAP for dimensionality reduction, improving data interpretability by 30%.
- Built machine learning models with PyTorch and TensorFlow to classify and predict stem cell dynamics.
- Developed interactive data visualizations using Matplotlib, Seaborn, Plotly, and Bokeh, supporting research presentations and publications.
- Implemented Dynamic Time Warping (DTW) to compare time-series datasets, enhancing temporal pattern analysis accuracy.
- Collaborated with researchers to integrate computational methods into biological workflows, accelerating data processing by 25%.

Cotiviti Inc

Kathmandu, Nepal

Software Engineer

Sep 2019-June 2021

- Developed responsive web applications using React, JavaScript, TypeScript, HTML5, CSS3, Bootstrap, and Material-UI, improving user experience for healthcare providers and patients.
- Implemented APIs and backend functionality using C# and .NET Core, enhancing application scalability and performance.
- Designed and optimized relational databases using SQL, ensuring efficient data storage and retrieval for critical healthcare data.
- Deployed applications on Azure Cloud, leveraging cloud services for scalability, monitoring, and performance optimization.
- Collaborated with cross-functional teams, including designers and QA engineers, to improve code quality and reduce bugs by 20% through code reviews and automated testing.
- Authored design documents, coding best practices, and onboarding guides while actively participating in code reviews and pull request approvals to ensure team alignment and code quality.

Languages and Skills

Python, C#, C++, JavaScript, TypeScript, React, Angular, PyTorch, TensorFlow, Material UI, Bootstrap, HTML5, CSS3, SQL, MongoDB, Azure, AWS, Git, SVN

Education

University of California, Santa Cruz

Santa Cruz, CA

Bachelors in Computer Science

Jan 2023 - May 2026