Dev Bhatia

Seeking Full Time opportunities in Software Engineering
Former Tesla, Microsoft, & Intel intern

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EDUCATION

University of California, San Diego
Expected Graduation March 2021

Bachelor of Science, Electrical Engineering
September 2017 - Present, Overall GPA: 3.14

EXPERIENCE

Microsoft, Software Engineer Intern
June 2020 - Present

+ Expanding capabilities of AI Builder to make predictions with unlabeled data using Machine Learning (clustering).
+ Designing end-to-end solution user-facing solution with frontend in TypeScript & React and backend in Python & C#.
+ Collaborate with and present to Designers and PMs using Agile methods in a remote work setting.

Intel, Power & Performance Engineer Intern
June 2019 - September 2019

+ Led development of test automation framework in Python to measure CPU power when executing KPI benchmarks.
+ Automated 70% of the team's tasks to validate mobile/PC platform silicon across Linux and Windows OS remotely.
+ Managed team's repository, organized all tools & documentation, collaborated with PM to identify features to implement.

Tesla, Software Test Engineer Intern
August 2018 - December 2018

+ Engineered automation infrastructure from scratch in Python on Linux to triple team's ability to catch SW & HW bugs.
+ Designed & trained technicians to build scalable electrical firmware test setups for ALL production vehicles at the time.
+ Identified quick and efficient solutions to solve bugs, ensuring SW updates were ready to ship within the same day.
+ Frequently presented to engineers, technicians, and PMs to ensure releases are on track for customer vehicle updates.

SKILLS

PROGRAMMING	Python, C++, TypeScript, JavaScript, Bash, HTML, CSS, MATLAB, Assembly, Verilog, MySQL, C
TOOLS	REST APIs, Linux, UNIX, SQL, JSON, Docker, Git, MacOS, Windows, GitHub, Jenkins, Azure DevOps

SELECT COURSWORK

Linear/Non-Linear Optimizations	Wrote implementations of K-Means & Least Squares algorithms in Python
Neural Networks & Deep Learning	Used Python to solve classification problems with PyTorch, NumPy, Matplotlib
Data Science Applications	Project based Data Science in Python (Matplotlib, Pandas, NumPy, Seaborn, NLTK)
Software Foundations	Object-oriented programming, data structures, & algorithms in C++ using the STL
Art of Product Engineering	Full stack web development using Python, Docker, HTML/CSS, & JavaScript
Business Project Management	Project Management techniques to evaluate budget, time management, and ethics

PROJECTS

The Shtrahman Lab (Built data visualization tool to aid studying memory formation in brain. View on my github)

+ Built automated email system in Python to send out daily experiment results with data visualizations to research team.
+ Wrote Python libraries to gather, evaluate, and distribute data from SQL database using matplotlib, pandas, SMTP packages.
+ Analyze large datasets (100,000+ unique entries) with computationally efficient code to compute metrics and present data.

Relational Database from Scratch in C++

+ Wrote a MySQL relational database implementation to understand and use industry wide design patterns in C++17.

EasyAXIS (Shared 3D printing website allowing users to outsource 3D printing their parts)

+ Built a full stack web application using Linux, MySQL, Python, Docker for users to upload, view, and download STL files.
+ Worked as a team using Agile methods to deliver final project within 8 weeks using Gantt Chart, SCRUM, etc.

Dark Mode UI for AmazonMusic site (Custom CSS to transform UI into a Dark Mode. View on my github)

+ Chrome extension to reduce eye strain, improve readability, and increase accessibility across site with CSS magic.

Gemini Mars (A feasible two-astronaut flyby mission around Mars, placed top 10 internationally. View on my github)

+ Captained team as high school senior that placed top 10 internationally in this collegiate competition by The Mars Society.

Accurate as of 5 August 2020