

Yuvraj Singh

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EDUCATION

California State University San Marcos
Bachelor of Science – Software Engineering

December 2022

RELEVANT COURSES

- | | | |
|-------------------------------|----------------------------------|-------------------------|
| • Ethics in Engineering | • Data Structures & Algorithms | • Web Programming |
| • Computer Science I & II | • Software Testing & Quality | • Software Architecture |
| • Assembly & Digital Circuits | • Software Planning & Management | • Cloud Computing |
| • Deep Learning | • Software Requirement & Design | • Public speaking |
| • Programming Languages | • Database Management Systems | • Virtual Reality (VR) |

SKILLS

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|--------------------------------|---|
| • <i>Methodology</i> | SDLC, Agile, Waterfall |
| • <i>Programming Languages</i> | C++, Python, HTML5, CSS3, JavaScript(ES6), SQL, Bash |
| • <i>IDEs & Tools</i> | Eclipse, Visual Studio Code, Jenkins, PyCharm, Jupyter Notebook |
| • <i>Operating Systems</i> | Windows (XP, 7, 10, 11), Ubuntu (22.04 on WSL), MacOS |
| • <i>Database</i> | MySQL, MongoDB |
| • <i>Version Control</i> | GitHub, Jira (Scrum) |
| • <i>Other Skills</i> | Presentation, Management, Negotiation, Verbal communication. |

PROJECTS

Personal Website <https://www.ysingh.us> March 2024

- Built with HTML5, CSS3, TypeScript, Next.js; DevOps on Vercel; hosted on GitLab

Handwritten Digit Recognition *C.S. Department at CSUSM* May 2022

- Used MNIST data set with 60,000 training images of digits written between 0-9.
- Implementation of AI & ML techniques on a Convolutional Neural Network (CNN) model.
- Trained with Google's Tensorflow library in Python programming language.

WORK EXPERIENCE

Learning Assistant & Grader

Department of Mathematics at CSUSM
San Marcos, CA

- Facilitated collaborative engagement with Prof. J. Andres Noguez among a cohort of over 50 students in classroom settings for MATH 162, to enhance their comprehension of crucial mathematical concepts.
- Graded homework assignments, quizzes and exams according to established guidelines.
- Communicated effectively with students to address their questions and concerns.
- Worked with the Department Chair, Dr. Amber Puha for MATH 162 - Calculus with Applications, II
- Worked with Prof. J. Andres Noguez for MATH 160 and 162.