Nicholas Pavini

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EDUCATION

University of California, Irvine | Bachelor of Science – Computer Science   Sept 2021 – Sept 2023
- **GPA**: 4.0
- **Relevant Coursework**: Data Structure and Algorithms, Systems Architecture, Design and Analysis of Algorithms, Object Oriented Programming

American River College | Associate of Science – Computer Science   Aug 2015 – Apr 2021
- **GPA**: 3.93
- **Math Club President**

SKILLS

Languages: C#, Python, JavaScript, C++, HTML, CSS, SQL, AutoIT

Frameworks & Tools: ReactJS, .NET, .NET Core, XUnit, Git, MySQL, Azure Cloud Platform, TensorFlow, Keras

Concepts: RESTAPI's, Web Apps, Cloud Computing, Unit Testing, CI/CD

EXPERIENCE

Software Engineer Intern – Design Hub at American River College   Aug 2017 – Apr 2021
- Meet with clients and write well documented, scalable code to support the client's software needs.
- Develop digital mapping software for visually rendering buildings and landscapes from drone scans.
- Construct the AI pipeline for an ASL platform used in classrooms to assign and validate practice work.
- Tools: Python, SQL, CGI (Common Gateway Interface), Tensorflow, Keras

Computational Research Fellow – Lawrence Berkeley National Laboratory   Jun 2018 – Aug 2018
- Develop a Machine Learning platform for crowdsourced Drug Design with 3 other team members.
- Wrote scalable software to dispatch & validate our 300gb dataset in parallel using High Performance Computers.
- Optimize testing with a custom TensorFlow wrapper, reducing testing time by roughly 50%.
- Tools: Python, HPCs (High Perfomance Computers), Tensorflow, HDF5

Python and C++ Tutor – MESA at American River College   Aug 2017 – May 2021
- Provide ARC students with supplemental coding exercises for relevant data structures and course work.
- Assist students in developing test cases to validate software requirements and functionality.
- Mentor students on personal projects to make them more competitive on college and internship applications.

PROJECTS

Safe Accounts API / UI – Creator & Lead Developer   Mar 2021 - Present
- Safe Accounts is a Full Stack password manager in the cloud emphasizing security and usability.
- Develop a secure REST API for user authentication, session management, membership, and private data storage.
- Design and construct a frontend website to be fast and responsive while handling all client-side encryption.
- Tools: C#, ASP.Net Core, Entity Framework, MySQL, ReactJS, HTML, CSS

MyBotRun – Developer   Nov 2019 – Apr 2021
- Optimize existing functionality or add approved features with clean, scalable code.
- Built an internal development tool using C# and WPF to revamp workflow and speed up production by ~33%.
- Added and improved functionality in AutoIT for the tool used by tens of thousands of people.
- Tools: C#, WPF, AutoIT, Azure Dev Ops