Sheev Patel

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Education

University of Georgia *(August 2021 - May 2025)*
Major: (B.S.) Computer Science, **Minor**: Astrophysics
Honors: *Presidential Scholar, Dean's List*
Relevant Courses: *Software Development, Data Structures, Multivariable Calculus, Quantum Mechanics, Statistics, Systems programming, Web Programming*
Certificates: *Intro to C++ Course (Codecademy)*

Technical Skills

Programming Languages: Java (Proficient), Python (Proficient), C/C++ (Intermediate), Html+Css (Intermediate)
Frameworks/Libraries: JavaFX, NumPy, Pandas, Matplotlib, Sklearn, Openpyxl, QuTip
Tools: Git + Github, Unix, Maven, Emacs, JupyterLabs, Visual Studio Code, Eclipse, Microsoft Office, Google Workspace

Experience

UGA Center for Simulational Physics - *Quantum Computing Research Intern* | Athens, GA *(Sep 2023 - Dec 2023)*
- Conducting research on quantum computing and quantum information science through the usage of python programming in order to develop computer simulations for experiments
- Collaborating with other undergraduate researchers with direct mentorship from Dr. Michael Geller

Georgia Bulldogs Football - *Software Developer & Data Analyst Intern* | Athens, GA *(May 2023 - July 2023)*
- Independently planned, designed, and programmed a python based automated report project using JSON responses from the OpenField Catapult REST API to provide coaches with individual or team player performance for any chosen practice or activity
- Leveraged the Pro Football Focus API using a JSON Web Token to gather comprehensive player and team performance data, aiding in the ongoing development of an advanced analytical model
- Collaborated with coaching staff and sport science staff to develop data-driven python programs using machine learning libraries in order to effectively produce presentable visualizations of complex analytical insight

Quality Inn - *Technical Support Manager* | Tullahoma, TN *(November 2019-present)*
- Provide technical assistance to hotel staff and guests regarding hardware, software, and network-related issues
- Troubleshoot and resolve computer, printer, and networking problems
- Install and configure software applications and perform upgrades as required

Projects

UGA Catapult Football Practice Report | *Python, JupyterLab, Catapult* *(July 2023)*
- Developed the first python-based catapult report system from scratch for the University of Georgia football program to allow coaches and staff to have an efficient way to visualize comprehensive individual and team performance metrics
- Implemented threading techniques to significantly enhance processing efficiency and minimize execution time by 70%

MLB Weather Betting Analyzer | *JavaFX, Git, Emacs, Maven* *(May 2023)*
- JavaFX application using apache maven enabling users to obtain betting recommendations based on current weather for an MLB game by utilizing the HTTP client framework and accessing RESTful APIs
- Directly passes the HTTP response data obtained from the Zippopotamus API into the Weather API to seamlessly integrate and produce the weather information with location data

Community Involvement

SolveUGA - *Member* *(June 2023)*
- Actively collaborating with fellow members to solve challenging Leetcode problems and coding puzzles using advanced data structures and algorithms

Association of Computing Machinery - *Member* *(August 2023)*
- Engaging in professional development and networking within the computing community through active participation in computer science meetings and workshops