Jit Patil

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EDUCATION

University of Wisconsin Madison – Madison, WI
Bachelors of Science in Computer Science *(Honors Program)*; May 2019
Cumulative GPA: 3.83

- Introduction to Data Structures
- Machine Organization and Programming
- Introduction to Operating Systems
- Introduction to Programming Languages & Compilers
- Discrete Mathematics
- Introduction to Artificial Intelligence
- Introduction to Algorithms
- Introduction to Cryptography

PROGRAMMING EXPERIENCE

xv6
- Experimented with the MIT developed xv6 OS kernel by improving its virtual memory subsystem, introducing concurrency by adding support for multithreaded processes, and by adding integrity-checking to the filesystem to protect against data corruption.

Sqysh (C)
- Built a Unix shell focused on running other programs.

Moo
- Created a programming language called "Moo" by building the front end (scanner, parser, semantic analyzer) and back end (optimizer, code generator) of a compiler

Nannon (Java)
- Implemented three probabilistic reasoners to play a two-person board game. The user plays against one of the three reasoners.

TECHNICAL SKILLS

Programming Languages: Java (proficient), C (proficient), C++ (experienced), Fortran (experienced)
Technologies/Environment: Windows, Linux, Git, Visual Studios, Eclipse

WORK EXPERIENCE

Jan 2017 – Present
Programmer at United States Department of Agriculture - Research Center, Madison, WI
- Analyzed, updated, and expanded existing code (C++ and Fortran) of an integrated farm systems simulation model to make it more serviceable for researchers
- Managed a GIT repository to assign tasks to team members and to assure successful collaboration and completion of tasks

Oct 2016 – May 2017
Media and Captioning Specialist at McBurney Disability Resource Center, Madison, WI
- Worked with faculty to create captioned media for students who are Hard of Hearing
- Reduced video subtitling time by 25% by utilizing software which time stamped captions leading to greater media throughput

LEADERSHIP AND TEAMWORK EXPERIENCE

2015
National Honor Society – recognized for demonstrating academic excellence and strong leadership

2014 – 2015
Varsity Boys Soccer and Baseball – acknowledged as 'Best Sportsman (Soccer)', 'Most Valuable Player (Baseball)', and 'Most Improved Player (Soccer)'

AWARDS

2015-2017
Dean's List (Fall 2015, Spring 2016, Fall 2016, and Spring 2017)

2014 & 2015
Scholar Athlete of the Year (Ruamrudee International School, Bangkok, Thailand)