

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: 3.84

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

PROGRAMMING EXPERIENCE

- Get Loose (Java)**
- Creating an android application to help users improve their flexibility and mobility
- 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
- 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)**
- Developed three probabilistic reasoners to play a two-person board game

TECHNICAL SKILLS

Programming Languages: Proficient: Java, Python, C, HTML, CSS Experienced: C++, JavaScript, Fortran

Technologies/Environment: Windows, Linux, Git, Visual Studios, Eclipse, LiClipse

WORK EXPERIENCE

- May 2018 – August 2018* **Software Engineering Intern at Sony Interactive Entertainment PlayStation**, Middleton, WI
- Creating an internal tool used by console and web teams to distribute server data between various PlayStation endpoints
- Jan 2017 – Present* **Programmer at United States Department of Agriculture - Research Center**, Madison, WI
- Developing the ‘Ruminant Farm Systems Model’ (Python) to allow researchers to simulate the processes that occur within the soil, crops, animals, and manure on a farm
 - Managing a GIT repository to assure successful collaboration and completion of tasks
 - Analyzed, updated, and expanded existing code (C++ and Fortran) of an outdated integrated farm systems simulation model to make it more serviceable for researchers

LEADERSHIP AND TEAMWORK EXPERIENCE

- 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
- 2014 – 2015* **Varsity Boys Soccer and Baseball** – acknowledged as ‘Most Valuable Player (Baseball)’ and ‘Most Improved Player (Soccer)’. Rewarded for displaying sportsmanship (Soccer).

AWARDS

- 2015-2017* **Dean’s List** (Fall 2015, Spring 2016, Fall 2016, Spring 2017, and Spring 2018)
- 2014 & 2015* **Scholar Athlete of the Year** (Ruamrudee International School, Bangkok, Thailand)