

Jit Patil

Apt# 1016, 437 N. Frances St., Madison, WI 53703

Email: spatil5@wisc.edu

Phone: 608-622-0050

Github: github.com/satyajit-patil

Website: www.satyajitpatil.com

LinkedIn: // satyajit-patil-72bb64113

EDUCATION

University of Wisconsin Madison – Madison, WI

Bachelors of Science in Computer Science (*Honors Program*); May 2019

Cumulative GPA: 3.805

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

Programming Languages: Proficient: Java, Python, C, HTML, CSS Experienced: C++, JavaScript, Fortran
Technologies/Environment: Windows, Linux, Git, Visual Studios, Eclipse

WORK EXPERIENCE

- Jan 2017 – Present*
- Programmer at United States Department of Agriculture - Research Center**, Madison, WI
- Developing the ‘Modular Agricultural Systems Model’ (Python) to allow researchers to simulate the processes that occur within the soil, crops, animals, and manure on a farm
 - Managed a GIT repository to assign tasks to team members and 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 - Analyzed, updated, and expanded existing code (C++ and Fortran) of an outdated integrated farm systems simulation model to make it more serviceable for researchers
- 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
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LEADERSHIP AND TEAMWORK EXPERIENCE

- 2015*
- National Honor Society** – recognized for demonstrating academic excellence and leadership
- 2014 – 2015*
- Varsity Boys Soccer and Baseball** – acknowledged as ‘Best Sportsman (Soccer)’, ‘Most Valuable Player (Baseball)’, and ‘Most Improved Player (Soccer)’
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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)