

# Jit Patil

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

Email: [spatil5@wisc.edu](mailto:spatil5@wisc.edu)

Phone: 608-622-0050

Website: [www.satyajitpatil.com](http://www.satyajitpatil.com)

LinkedIn: // satyajit-patil-72bb64113

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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
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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, C Experienced: C++, HTML, CSS, JavaScript, Fortran  
**Technologies/Environment:** Windows, Linux, Git, Visual Studios, Eclipse

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## 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
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## 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)’
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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)