

# Viswesh Periyasamy

1423 Monroe Street Apt. 408 • Madison, WI • 53711  
**CELL** (608) 397-5745 **E-MAIL** vperiyasamy@wisc.edu

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## EDUCATION

### University of Wisconsin–Madison

2013 – 2017

B.S. Computer Engineering & Computer Science

GPA: **3.84**

- Dean's Honors List (Fall 2013 – May 2017)
- Eta Kappa Nu (HKN) Honor Society (Spring 2016 – Current)

### University of Wisconsin–Madison

2017 – 2019

M.S. Computer Science

GPA: **3.8**

- focus in machine learning, biostatistics, and medical informatics

## COURSES

**Data Structures** • Discrete Mathematics • **Algorithms** • Probability Theory • **Optimization** • Artificial Intelligence

**Machine Learning** (Mathematical & Theoretical) • Linear Algebra & Diff Equations. • **Operating Systems** • HCI • IoT

**Database Management** • Advanced Bioinformatics • **Data Science**

[SOFTWARE]

Digital System Design & Synthesis • **Microprocessor & Embedded Systems** • Circuit Analysis • Electrodynamics

Machine Organization • **Computer Architecture** • Mobile Computing • **VLSI Design**

[HARDWARE]

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## SKILLS

**Languages:** C / C++ / C# • Java • Python • MATLAB • JavaScript • AngularJS • HTML • CSS • Verilog • SQL • PHP

**Software:** Linux • vim / emacs • Git • Jenkins / Tomcat • Visual Studio / Android Studio / Eclipse • Spring

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## EXPERIENCE

**Amazon – Software Development Engineering Intern** ..... June 2018 – August 2018

- Designed and built a software profiler to deliver comprehensive performance metrics on thousands of methods called within an Amazon product search web request
- Worked alongside Search Latency team to integrate tool for calculating end-to-end critical path latency

**Wisconsin Institute for Discovery (WID) – Research Assistant** ..... August 2017 – Current

- PI: Professor Sushmita Roy
- Working on enhancing gene regulatory network inference, and specifically developing MCMC methods to improve hyperparameter and structure search efficiency

**University of Wisconsin–Madison – Teaching Assistant** ..... August 2017 – May 2018

- CS 537 – Introduction to Operating Systems (Undergraduate)
- CS 760 – Machine Learning (Graduate)
- Responsible for discussion section, writing/grading assignments and exams, holding lab and office hours

**SBB Research Group – Software Engineering Intern** ..... May 2017 – August 2017

- Built an in-house API that connected with several brokers for trading and data streams
- Created a data servlet tool for tactics team and designed a queuing mechanism for handling high stress loads
- Developed exhaustive unit testing and integrated automated build and deployment tools using version control

**Thomson Reuters – Software Engineering Intern** ..... May 2016 – August 2016

- Improved Monitor Suite – UI and backend, redesigned myMonitor component using AngularJS
- Managed / mentored high school intern in programming and software engineering practices

**Human-Computer Interaction (HCI) Laboratory – Research Assistant** ..... May 2015 – May 2017

- Gained experience in designing, synthesizing and implementing 3D printed robots
- Conducted research studies to analyze successful integration of products into society

**Space Science and Engineering Center (SSEC) – Programmer** ..... November 2014 – May 2017

- Wrote and tested scripts to automate incoming data verification
- Built web pages to format and display server data, as well as night shift clerical duties