

# Prudhvi Raj Boyapalli

## EDUCATION

B.S. Computer Science, Rice University, May 2017.

## SKILLS

**Proficient in:** Java, Python, HTML/CSS, JavaScript, Git

**Familiar with:** C, Scala, \*nix Shell, D3.js, Three.js, jQuery, Bootstrap, Flask, Celery, Subversion

## EXPERIENCE

**Amazon, Software Development Engineer Intern**, May – August 2016

**Physical and Biological Computing Group Rice University, Research Assistant**, May – August 2015

Created and deployed an open source web application to solve and visualize robotic motion planning problems using the Open Motion Planning Library from scratch.

Implemented a way to benchmark planning algorithms, allowing users to compare performance across different types of problems and pick the best planner for their needs.

Designed and implemented the user interface in JavaScript using jQuery, Bootstrap, and THREE.js as well as server code written in Python using Flask and Celery. See [omplapp.kavrakilab.org](http://omplapp.kavrakilab.org).

**J.B. Hunt Transport, Information Services Intern**, May – August 2014

Worked on a team to develop, maintain and support JBHunt 360, a transportation management application.

Improved labeling and added more detailed information to a map view used for tracking shipments.

Used JavaScript to create and test fixes for over 30 bugs of varying complexity.

**Rice University, Teaching Assistant**, Computational Thinking (Fall 2014) & Parallel Programming (Spring 2016)

Held office hours, graded and provided feedback on assignments and tests.

## LEADERSHIP & ACTIVITIES

**Physical and Biological Computing Research Group, Research Assistant**, October 2014 - Present

Researching and developing an algorithm to find biologically important and valid pathways within a graph of metabolic reactions.

Building an application using JavaScript and the D3 library to visualize metabolic pathways.

**Rice Robotics Club, President**, April 2014 - April 2015

Coordinated the design and construction of competition robots and presented new workshops in equipment safety and robot construction.

Led the team to qualify for and compete in the 2015 Vex-U World Championships.

Worked with professors, sponsors, and club officers to host competitions and arrange travel.

Raised over \$15,000 to support the club's activities.

**Rice Computer Science Club Technical Committee, Member**, July 2015 - Present

Organizer for HackRice, an annual hackathon with over 400 participants. Communicated with industry sponsors, reviewed applications, and coordinated numerous aspects of planning and hosting the event.

Organized algorithm challenges, resume reviews, and mock interviews for CS students.