

# Doug Rudolph

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## EDUCATION

### RUTGERS UNIVERSITY

#### COMPUTER SCIENCE

Expected Graduation: May 2017

Location: Piscataway, NJ

#### BA IN COMPUTER SCIENCE

Conc. in Computer Graphics

College of Arts and Sciences

## LINKS

LinkedIn: [/in/DougJRudolph](#)

Github: [github.com/11](#)

## COURSEWORK

### UNDERGRADUATE

Computer Graphics

(Research Asst.)

Algorithmic Design

Data Structures

Programming Principles

(Teaching Asst.)

Software Engineering

Databases

Game Development

Unix Tools and Scripting

## SKILLS

### LANGUAGES

Over 5000 lines:

Java • C# • Python • C++

C • ASP.net • JavaScript

Over 1000 lines:

CSS •  $\text{\LaTeX}$  • Assembly

MySQL • PHP • Clojure

### FRAMEWORKS & TOOLS

Git • Terminal • JQuery

Flask • Vue.js • Bootstrap

OpenGL • GLSL • Monogame

## INVOLVEMENT

### LANGUAGES

Web Master • USACS

HX Team Director • HackRU

Organizer • Ru Tech Meet UP

Day-of Organizer • HackRU

CS Mentor • USACS

## EXPERIENCE & LEADERSHIP

### RECCCELERATOR | SOFTWARE ENGINEER & CO FOUNDER

July 2014 – Now | Washington DC, MD & Sparta, NJ

- Wrote a web payment portal using C#, ASP.net, and the Stripe payment API to track and store credit card transactions in a Microsoft SQL Database
- Developed an in house data-analytics API with the C# LINQ framework to pull statistics from credit card transactions to seek out spending patterns

### RUTGERS UNIVERSITY | GRAPHICS RESEARCHER

May 2016 – Now | Piscataway, NJ

- Working underneath Ph.D Dr. Bahman Kalantari as lead software engineer for his polynomiography algorithmic art visualization research
- Responsible for maintaing the project code base and writing shaders in GLSL, OpenGL, and Java for Dr. Kalantari's solution to the Convex Hull problem

### RUTGERS UNIVERSITY | RECITATION LEADER & CODE RED TUTOR

Sep 2016 – Now | Piscataway, NJ

- Organize and conduct weekly recitations for introductory computer science courses to solidify concepts that are taught during formal lectures
- University CS tutor for Introduction to CS - 111 & Data Structures - 112

### RUTGERS COGS | PRESIDENT - CREATION OF GAME SOCIETY

Sep 2016 – Now | Piscataway, NJ

- Creating a strong Rutgers CS community and managing \$20,000 to create informative and educational events for Rutgers computer scientists
- Coordinating with the university and running a university-wide game jam
- Directed mentors and technology at HackRU for 1000 devs over 30 hours

## PROJECTS

### USACS.RUTGERS.EDU | USACS CLUB WEBSITE

<https://usacs.rutgers.edu>

- Developed and designed front-end using HTML and wrote a custom scalable CSS library used through the entirety of the website
- Wrote custom calendar to json conversion app to dyanmically parse club calendar into JQuery, to where the data then populates the events webpage

### DYNAMO | DYNAMICALLY UPDATING AGENDA

<https://www.github.com/11/Dynamo>

- Chrome extension designed to be used as a dynamically updating agenda that suggests the order responsibilities should be completed
- Determines the order based on due date and previously finished, related tasks
- Designed the front-end using HTML, wrote custom CSS library, wrote the data prioritization and local hosting components with pure JavaScript
- Won 'Most self-reliant hack' at HackNY Fall, 2016

### EDUSCAPE | GAMIFYING EDUCATION

<https://www.github.com/11/Eduscape>

- Educational web-app built to work with the Canvas API to allow classes to anonymously wager credits and duel to compete for classroom high scores
- Wrote scalable database model using MySQL and integrated it with Node.js
- EduScape won Microsf't 'Honorable mention prize' at HackPSU Spring, 2015