

# David Chen

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## EDUCATION

### RUTGERS UNIVERSITY

#### BS IN COMPUTER SCIENCE

Exp. May 2018 | New Brunswick, NJ

School of Arts and Sciences

Multiple Dean's List Recipient

GPA: 3.0 of 4.0

## LINKS

Github: [github.com/davidchen](https://github.com/davidchen)

LinkedIn: [linkedin.com/in/dave-chen](https://www.linkedin.com/in/dave-chen)

Website: [chen-david.com](https://chen-david.com)

Blog: [blog.chen-david.com](https://blog.chen-david.com)

## COURSEWORK

Data Structures

Discrete Structures I and II

Computer Architecture

Design and Analysis of Algorithms

Systems Programming

Principles of Programming Languages

Principles of Info and Data

Artificial Intelligence

Software Methodology

Brain Inspired Computing

Data Science

## SKILLS

### PROGRAMMING

Python

Java

JavaScript

C#

### FRAMEWORKS & APIs

Flask

Apache

Selenium

AWS

Twilio

Heroku

Mailgun

Bitnami

### MARKUP & QUERYING

HTML

Markdown

CSS

SASS

Bootstrap

SQL

jQuery

XPath

Jinja

### TOOLS & IDEs

Git

IntelliJ

Bash

Visual Studio

Cmder

Eclipse

PyCharm

Latex

## EXPERIENCE

### APPLIED DYNAMIC SOLUTIONS | SOFTWARE DEVELOPER INTERN

July 2017 – Jan 2018 | Rahway, NJ

Developed, documented, and released an open-source Python package called BEL ([github.com/belbio/bel](https://github.com/belbio/bel)) for use in parsing, validating, creating, computing, and canonicalizing Biological Expression Language statements. Contributed to and documented other open-source software such as TatSu ([github.com/neogeny/TatSu](https://github.com/neogeny/TatSu)).

### HACKRU | DEVELOPER

Feb 2017 – Present | Piscataway, NJ

Worked primarily as the front-end developer for HackRU's registration website (Rutger's biannual hackathon): over 1400 registrations conducted successfully within one week of launch. Utilized Bootstrap as a framework, along with custom CSS/JS, and GitHub for version control.

## PROJECTS

### SCHEDRU | [www.schedru.me](http://www.schedru.me)

PYTHON · FLASK · POSTGRESQL · SQLALCHEMY · TWILIO · MAILGUN · AWS · BITNAMI

- Web app that notifies users when closed courses open up for registration. Currently at 2000+ active users, with over 26,000 emails and texts sent.
- Bcrypt is used to hash sensitive data and request sessions are used to automatically register wanted courses.

### PATHFINDER | [www.git.io/vHMSt](http://www.git.io/vHMSt)

PYTHON · PYGAME GUI

- Finds the least costly path between two cells within a discrete grid world full of different obstacles.
- Implemented A\* and uniform cost search algorithms using heuristics like Manhattan and Chebyshev.

### RIDESHARE | [www.git.io/vHMNa](http://www.git.io/vHMNa)

JAVA · JSP · MYSQL · APACHE TOMCAT · AWS

- An Uber-like web app that matches passengers with drivers going to the same campus; handles views for admin, support, or regular user account types.

### ORDRIN | [www.git.io/vHMdQ](http://www.git.io/vHMdQ)

NODE.JS · EXPRESS · TWILIO · CLARIFAI · EATSTREET API · AWS

- Developed as a team at HackNY Fall 2016 and winner of the "Best Use of AWS" award: uses image recognition to detect type of food in a picture and order it.

## ACTIVITIES AND CLUBS

### GOOGLE ALLO | CAMPUS AMBASSADOR

Sep 2017 – Nov 2017 | Piscataway, NJ

Connected students with Allo by hosting campus events and brand interaction.

### HACKRU | MARKETING AND DESIGN DIRECTOR

June 2017 – Present | Piscataway, NJ

Directed the branding and marketing of HackRU. Delegated social media campaigns to generate awareness of the hackathon and increase registration numbers.

### USACS | MENTOR

Sep 2016 - Dec 2016 | Piscataway, NJ

Mentored and taught CS underclassmen in topics such as HTML, CSS, and Python.