

# Payton Garland

Computer Science & Mathematics Major

✉ payton.r.g@gmail.com | ☎ 1 (608) 345-3222 | 🏠 paytongarland.com | 🔄 payton | 🌐 paytongarland

## About Me

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**Technical Skills** Java · JavaScript · PHP · C · HTML/CSS · SQL · LaTeX

**Tech/Misc** JWTs · OAuth and OpenID Connect · Agile · Git · Windows · MacOS · Linux

**Interests** Cinematography · Photography · eSports · Magic/Entertainment

## Experience

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### Widen Enterprises

*Software Development Intern*

Madison, WI (May 2017 - Present)

- Create service to synchronize FileMaker database/ADP with Pingboard using SQL queries and HTTP requests that is used daily by company employees
- Top contributor to open source Java-based metadata extraction library receiving 100 thousand downloads per month
- Build web application using GitHub API to display product releases and change information for employees
- Develop open source project and form extensive tests to authenticate users accessing private content via AWS CloudFront

### Monona Grove School District

*Technology Specialist*

Monona, WI (March 2015 - January 2017)

- Design and oversee PHP-based dashboard to monitor system statuses using external APIs
- Supervise 4 high school students to prepare the district's technology for the up and coming school year requiring strong communication and leadership skills

## Projects

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### CloudFront Auth

(January 2018 - present)

- Develop open source application that implements OAuth2 and OpenID Connect
- Authenticate and authorize users accessing AWS CloudFront content with Lambda@Edge (Node.js)
- Utilize Json Web Tokens for persistent login after authentication with Google, Microsoft, or GitHub

### Omni View - University of Minnesota

(January 2018)

- Apply image recognition RESTful API to detect potential sports injuries in real time, which placed top 7 at competition
- Create API for instant notifications with AWS API Gateway and AWS Lambda that form HTTP requests to OneSignal
- Maintain communication within team for a fast, quality implementation

### Safe Sense - gALPHA by gener8or

(October 2017)

- Use Arduino and sonar sensors to notify bearer of approaching strangers with Bluetooth connection
- Interview potential customers/field experts to further mold product for target market
- Experience ambitious timeline to create minimum viable product with minimal resources

### Juke Baux - University of Waterloo

(September 2017)

- Construct dynamic, shared playlists via Spotify API with Ionic for mobile iOS and Android applications
- Collaborate with team of 4 to divide and conquer problem for increased productivity

## Education

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### University of Wisconsin-Madison

Madison, WI (2016 - Present)

- Majors: Computer Science & Mathematics
- GPA: 3.38
- Relevant Courses: Intro to Data Structures, Intro to Computer Engineering, Intro to Discrete Mathematics, Linear Algebra, Machine Organization and Programming, Intro to Artificial Intelligence and Intro to Algorithms