

# Jonathan Segal

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## Education

**Iowa State University**, B.S. Software Engineering, GPA: 3.0 **Junior Year, Intended grad: May 2022**

- **Relevant Coursework:** Data Structures, Artificial Intelligence, Linear Algebra, Database Systems, Computer Architecture, Introduction to Ethics and Politics, Spring 2021: Algorithms

**University of New South Wales, Australia**, Study Abroad

**Jan - May 2020**

**Technical Skills:** JavaScript(6yrs), C# .NET(4yrs), Java(3yrs), Git, SQL, React, Angular, Typescript, Python, Scala, Google Cloud, Firebase, Azure, GraphQL, TDD, CI/CD

## Work Experiences

*Software Engineering Intern - Operational Scalability Team*

**Dwolla, Des Moines, IA**

**May - Aug, 2020**

- Developed enhancements for the in-house **C# ASP.NET** admin system which improved readability by implementing ADA AA standards and surfacing important hidden information
- Removed users access to out of contract services by adding logic using **Scala** that checks the type of user contract and sends error codes when there is an unauthorized call to the API
- Instrumented in-house admin application unit tests which increased CSRF coverage by 80%

*Software Developer Intern - Data Science & Informatics*

**Corteva Agriscience, Johnston, IA**

**May - Aug, 2019**

- Deployed new in-house lab genetics management system using **Angular, C# .NET, Azure**, which reduced crashes by 20% by designing and implementing modern frameworks
- Reduced cost by 10% by designing the new system for **Azure** serverless functions

## Projects

**S E 319, Construction of User Interfaces Group Project**

**October 2019**

- Collaborated with my teammate to develop a location-based capture the flag game by building a PWA with **Javascript**, Mapbox, Redux, Firebase

**Crypto Bonds, University of Illinois Hackathon, Hackathon Project**

**Feb 2019**

- Created a clearing firm platform using **Python** that allows buying, selling, trading bonds on a blockchain by collaborating with mentors from the Linux Foundation

**Maptab, Personal Project, matab.app**

**October 2019**

- Used **Mapbox's API** and **React** to create a chrome extension that shows a random location and information when a new tab is opened; 16+ active users to date with 5.0 rating

## Activities and Leadership

**Google Developer Student Club, Lead**

**Aug 2020- May 2021**

- Will be hosting Google Developer Experts and others as speakers as well as organizing events such as live coding sessions and workshops

**Hackathon Club, Co-Founder & President**

**Sept 2019 - Jan 2020**

- Organized teambuilding and transportation to 7 hackathons with an average of 10+ students
- Grew club to 70+ members by recruiting through university events and advertisements

## Honors and Awards

**PickHacks 2019, 2nd Pl. Winners**

**Mar 2019**

- Used **Javascript** to create cloud-based hockey performance tracker utilizing phone sensor API's
- Won 2nd place among 60+ projects for innovation, usefulness, technical difficulty