

# AVIRAL SAXENA

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## Education

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**University of Illinois at Urbana-Champaign**  
Bachelor of Science in Computer Engineering

May 2022  
GPA: 3.74

## Experience

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### Facebook

*Software Engineering Intern*

- Incoming Software Engineering Intern for Summer 2021

Menlo Park, CA  
May 2021 - Aug 2021

### Salesforce

*Software Engineering Intern*

- Augmented Commerce Cloud with a dynamic component to create and clone Product Variants used by 60% of B2B customers
- Implemented a deep clone feature to clone up to 5 levels of SQL records related to a variant product via breadth-first search
- Created a Java API to automate form pre-population with SQL
- Utilized Java, Spring, PostgreSQL, Aura, and Lightning Web Components

San Francisco, CA  
May 2020 - Aug 2020

### Cargill

*Software Engineering Intern*

- Implemented an intuitive solution for real-time management of feed pad inventory
- Automated the process of feed pad configuration via a QR code generator encapsulating various meta-data
- Optimized dashboard to handle human errors, which effectively reduced clean-up costs by \$150,000
- Utilized Python, AngularJS, Google Firestore, Firebase Auth, and Kubernetes

Champaign, IL  
Aug 2019 - May 2020

### Businessolver

*Software Engineering Intern*

- Refactored company's web application with UI/UX upgrades alongside building reusable APIs
- Integrated microservices for payments and authentication via AWS Lambda
- Created a feature to automatically validate and persist client XML data, which increased pipeline throughput by 43%
- Utilized Java, SQL, jQuery, AWS Lambda, Python, and XSLT

Itasca, IL  
Jun 2019 - Aug 2019

## Independent Projects

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### Math Jam

- An educational battle royale where players quickly solve math equations to stay safe inside of a ring that shrinks over time
- Players may team up or play alone against hundreds of others, while exploiting power-ups and quick wits to survive
- Integrated AWS ECS load balancing and featured seamless gameplay by leveraging Google Firestore's real time triggers
- Utilized Node.js, Socket.io, Google Firestore, and AWS ECS

### Nosh (Congressional App Challenge Winner)

- A decentralized online marketplace for food powered by Ethereum Smart Contracts to bypass pesky middleman fees
- A revolutionary innovation to marketplace applications that allows for seamless, secure, and economical transactions
- The combination of Firestore and Socket.io gives the users the most up to date deals without the dreaded manual refreshing
- Utilized Node.js, Socket.io, Google Firestore, and Ethereum Smart Contracts

### News Mood

- An application that pulls in thousands of tweets and articles from around the world and computes a sentimental analysis
- Leveraged TextBlob to perform a series of sentimental analyses and natural language processing
- Results are presented on a Google Charts provided world map via a spectrum of colors corresponding to a computed mood
- Utilized Node.js, Socket.io, Google Firestore, Python, Tweepy API, TextBlob, and Google Charts

## Skills

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**Languages:** Java, Python, C, C++, JavaScript, XSLT, HTML, CSS

**Frameworks:** React, Flask, Socket.io, Aura, Lightning Web Components

**Databases:** Firebase, PostgreSQL, MongoDB

**Tools:** AWS Elastic Beanstalk, AWS EC2, AWS Codepipeline, Github, Jira, Confluence, Bamboo, Stash, Perforce, Swarm

## Leadership

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Chicago Hacks non-profit organization Co-founder

Reflections Projections Corporate Team

Association for Computing Machinery (ACM@UIUC)