

# Jonathan Farrell Kusuma

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## Education

### University of Southern California

January 2023-December 2024

*Master of Science in Applied Data Science*

**Cumulative GPA: 3.7**

- Machine Learning, Database Systems, Optimization Techniques, Data Management, Data Mining

### University of Illinois at Urbana-Champaign

August 2020-May 2022

*Bachelor of Science in Information Sciences*

**Cumulative GPA: 3.9**

- Dean's List, Spring 2021
- Data Management and Curation, Machine Learning, Data Visualization, HCI, Data Analytics

## Technical Skills

- **Programming Languages:** Java, Python, R, PHP, JavaScript, HTML5 & CSS3, SQL (PostgreSQL, MySQL)
- **Frameworks:** React, Node.js, Flask, Hadoop, Tensorflow, scikit-learn, Pandas, NumPy, Matplotlib, Seaborn
- **Tools:** Git, Docker, Kubernetes, MongoDB, Spark, AWS (EC2, S3, Lambda), Jenkins, Jupyter Notebook, Hadoop, Power BI, Azure (Data Factory, Machine Learning Studio), Figma, Adobe (Illustrator, After Effects)

## Work Experience

### Ayola.co / Software Developer Intern - Remote

November 2023-February 2024

- Deployed custom role-based dashboards with React, serving 50,000 users and supporting multiple user roles
- Designed and optimized MySQL schemas, reducing query times by 30% for 1 million reservations
- Integrated real-time analytics, providing actionable booking insights

### HathiTrust Research Center / Web and UX Researcher - Champaign, IL

May 2021-November 2021

- Coordinated and assisted in UI/UX improvements and HTML5 migration
- Conducted usability testing and quantitative research to investigate UX issues incorporating text data mining
- Implemented and improved web presence based on findings, resulting in a 15% reduction in user error rate
- Developed interaction strategies to improve navigation and flow to anticipate user needs

### Gratia Husada Farma / Software Developer Intern - Remote

May 2020-August 2020

- Restructured official website performance, eliminating 40% of load time by integrating modern frameworks
- Executed code fixes across all layers utilizing Javascript, JQuery, and React
- Optimized SQL queries, leading to a 12% reduction in p95 response times

### Biznet Networks / Software Developer Intern - Jakarta, Indonesia

July 2019-August 2019

- Designed user interfaces and devised the backend of the intranet website for the company faculty
- Built an internal tool for a management system and inventory software, handling over 1300 employees
- Implemented automatic RESTful API testing using Postman, resulting in a 13% improvement in API performance

## Leadership and Involvement

### Graduates Rising in Data Science (GRIDS) / Vice President - Los Angeles, CA

January 2023-Present

- Delegated tasks to a team of 20 officers, ensuring efficient operations and maximum productivity
- Organized and spearheaded hackathon events, fostering creativity and collaboration among participants
- Developed and enhanced an innovative website, boosting engagement and accessibility for 1500+ members

### USC 3D4E / Lab Manager - Los Angeles, CA

August 2022-Present

- Trained on operating and assembly of 3D printers and instructed Lab Techs on 3D printer operation
- Planned and developed a functional Arduino 3D printed project from start to finish
- Designed and implemented software for members to optimize and streamline 3D printing processes in the lab

### ASIS USC / Director of Web and Design - Los Angeles, CA

August 2022-Present

- Designed compelling digital content using advanced web development techniques
- Strategically branded and engaged an audience of over 200 participants

### Solar Chapter / Marketing and Web Officer - Champaign, IL

August 2021-August 2022

- Planned and led website development projects, boosting online engagement and social outreach by 21%
- Launched marketing campaigns to build sponsor partnerships for a \$25,000 community development project

### Engineering Without Borders / Software and Electrical Engineer - Seattle, WA

May 2019-June 2020

- Conducted research for public solar charging stations with active sun-tracking capability
- Integrated dual-axis solar trackers to maximize solar efficiency by 30%