

# Shloke Meresh

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## EDUCATION

BA, Grinnell College

Grinnell, IA

- Double Major in **Computer Science** and **Economics**, Minor in **Statistics**
- GPA:
  - o Computer Science: 4.00/4.00
  - o Economics: 3.91/4.00
- *Relevant Coursework*: OOP, Operating Systems, Software Design & Development, Theory of Computation, Linear Algebra, Discrete Math, Algorithms, Statistical Modeling, Applied Statistics
- Co-authored a paper awarded **3<sup>rd</sup> place** in nationwide undergraduate statistics ([USCLAP](#)) competition

## SKILLS

Programming: Python, C, C++, Java, Kotlin, SQL, R, MATLAB, Racket, XML, HTML, CSS  
Frameworks/Tools: GCP, BigQuery, Looker, Android Studio, Firebase, Posit (RStudio), Git  
Libraries: Pandas, Numpy, Matplotlib, Scikit-Learn, BeautifulSoup, GGPlot  
Languages: English (Native), Hindi (Native), French (Beginner), Hungarian (Beginner)

## WORK EXPERIENCE

### Data Engineering Intern

Palo Alto, CA

*CapsicoHealth Inc.*

June 2022 – Aug 2022

- Wrote scripts to automate data transfer and transformation between FTP servers and GCP storage
- Developed SQL code generation templates that reduced lines of code for additional queries by 70%
- Developed ETL pipelines and stored procedures to prepare data for querying, analysis and dashboarding
- Created code templates to facilitate data integration between BigQuery and Looker for analytics team, eliminating the need for an intermediary

### Data Science Research Assistant

Grinnell, IA

*Economics Department, Grinnell College*

Aug 2021 – Dec 2021

- Cleaned, wrangled and manipulated raw field data from surveys of women's time use and group norm activities in Ethiopia to prepare it for analysis
- Conducted econometric analyses to identify statistically significant time-use trends using multiple regression and hypothesis testing
- Set up an online collaborative development environment for professors and other research assistants
- Created informative data visualizations to identify and explain patterns in the data

### Data Science Intern

Palo Alto, CA

*CapsicoHealth Inc.*

June 2021 – August 2021

- Developed predictive models around patient health using Google BigQuery ML tools, achieved a true positive rate of 94% in predicting hospital readmissions
- Created Looker dashboards with visualizations of trends in US Obesity and Diabetes data, provided to clients for use in developing preventive care measures
- Wrote SQL queries to filter, clean and create subsets of patient health data with 300 million+ records
- Documented workflows and created training modules that reduced employee onboarding time by 50%

## PROJECTS

- **SoccerSimulator**: A program that simulates a soccer match between two chosen teams using an EA Sports FIFA dataset (Racket)
- **SystemsPoker**: A live multiplayer poker game program built using networks/distributed systems, concurrency with threads, and thread synchronization (C)
- **Cadenza** (in progress): A social media Android app that uses Firebase storage and REST APIs to allow users to post song recommendations and share them with friends (Kotlin, XML)
- **PasswordCracker**: A brute-force password cracker (fastest time in class) using parallel processing with threads (C)
- Developed 8+ complete Android mobile applications using UX design, local + cloud storage, API communication, animations, threads and more

OTHER INTERESTS: Musician (Published singer/songwriter, guitar, piano, vocals), Chess, Soccer, Basketball