

# DEAN MENEZES

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[github.com/menezesd](https://github.com/menezesd)

## Education

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### University of California Los Angeles

Los Angeles, CA

*Graduate Program in Mathematics, GPA: 3.99*

*Graduated*

- **Passed Qualifying Exams in:** Algebra, Logic, and Analysis
- **Graduate Summer Schools in:** Combinatorics, Logic, Set Theory, Number Theory, Topology

### The University of Texas at Austin

Austin, TX

*B.S. Mathematics, B.A. Plan II Honors, Highest Honors, Special Honors in Mathematics, GPA: 3.98*

*Graduated*

- **Undergraduate Thesis:** Cartesian Closed Categories and Typed Lambda Calculus
- **Budapest Semesters in Mathematics (Fall 2014):** High Honors
- **UCLA Logic Summer School (Summer 2014):** Graduate-level classes in Forcing and Descriptive Set Theory taught over 3 weeks

### Mary Carroll High School

Class of 2012

*Valedictorian (Highest Ranking Graduate)*

## Experience

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### SWE Fortanix

Remote

*Software Engineer*

*2022-Present*

- Worked on cryptography and cybersecurity software based on Intel SGX Technology.
- Implemented frontend and backend software for key management and processing of machine learning datasets using C++ and Rust.

### SWE Intern Google

Remote

*Software Engineer Intern*

*2022*

- Worked on developing software related to search testing and infrastructure for derived intent generation.

### Intern: Snowflake SQL team

Location

*SQL Intern*

*June-Dec 2021*

- Worked on adding rules to the SQL compiler, such as pushdown of filters and JOIN elimination.
- Contributed to cardinality estimation, estimating the size of various sets involved in SQL queries for query planning.

### Teaching Assistant at UCLA

Los Angeles, CA

*Teaching Assistant*

- Assisted with Linear Algebra and Discrete Programming courses.

### Grader, Mathematics Department UT Austin

Austin, TX

*Grader*

- Worked as a grader in the Mathematics Department.

### Learning Assistant – Mathematics Department UT Austin

Austin, TX

*Learning Assistant*

- Served as a Learning Assistant in the Mathematics Department.

## Technical Skills

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**Languages:** C, C++, Python, Java, Scheme, Mathematica, MATLAB, SQL, JavaScript, OCaml, Go, Haskell, Rust, FORTRAN, HTML, CSS

**Developer Tools:** Linux / Unix, WireShark, IntelliJ, Emacs, JIRA, Jenkins, ANTLR, Docker

**Technologies/Frameworks:** Python (numpy, pandas, scipy, scikit-learn, FastAPI, BeautifulSoup), Ruby on Rails, Django, React