

# Mohamed Elgharbawy

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## EDUCATION

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**UNIVERSITY OF CALIFORNIA, BERKELEY** 2019-2021  
Computer Science Bachelor of Arts

**DE ANZA COLLEGE** 2016-2019  
Associates: Liberal Arts - Science, Math and Engineering Emphasis

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## SKILLS

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**Languages: Advanced:** C++, Java, Python; **Intermediate:** Swift, Web Dev., C

**Software & Libraries:** SQL, DynamoDB, Apache, PhpMyAdmin, Pandas, jsoup, AWS, Google Guice

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## WORK EXPERIENCE

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**Amazon** (2020 & 2021) Remote/Bellevue, WA  
*Software Development Engineer Intern* Summer 2020 & Summer 2021

- Designed and implemented both full stack and backend services from scratch
- Designed and implemented a pre-compute solution to reduce loading times from 10+ seconds to under a second
- Implemented integration testing, metrics, dashboards, alarms, and conducted an Operational Readiness Review
- Software and tools include Java, React, Javascript, HTML, CSS, SQL, Dynamo DB, Google Guice, AWS, and more

**AI Health** Sunnyvale, CA  
*Computer Science Intern* July 2018 - December 2018

- Developed an anti-fraud software for dental offices using C++, Python, and SQL
- Worked with databases containing millions of entries
- Reduced CSV manipulation scripts' runtimes significantly

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## RESEARCH

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**NumS - RISELab @ UC Berkeley** Berkeley, CA  
*Research Assistant* January 2021 - May 2021

- Increased the API Coverage for NumS ([github.com/nums-project/nums](https://github.com/nums-project/nums)), a numerical computing library for Python that scales to the cloud

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## TEACHING

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**CS61C - UC Berkeley** Berkeley, CA  
*Academic Intern* January 2021 - May 2021

- Guided students during project office hours with conceptual and debugging questions
- Course covered a large range of topics, including C, RISC-V, CPU architecture, and parallelism

**Computer Information Systems Department - De Anza College** Cupertino, CA  
*Computer Science Teaching Assistant* January 2019 - March 2019

- Aided 40+ CS students with understanding the fundamentals of programming in Java