

# Josh Stein

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## About

Current Master's student with interests in artificial intelligence, biomedical computing, teaching and magic. I'm a curious and driven person, who enjoys being immersed in difficult problems. When I'm not working/teaching I enjoy reading, swimming, surfing and hiking.

## Education

**Technical University of Munich** Oct. 2020 – Present  
MSc in Biomedical Computing

**University of Cape Town** Jan. 2016 – Nov. 2019  
BSc in Electrical and Computer Engineering

**University of Cape Town** Jan. 2014 - Nov. 2015  
MBChB in Medicine

## Work experience

**Software Engineer - Mathigon** Mar. 2021 - Present  
While pursuing my master's, I have worked as an engineer for Mathigon, an ed-tech startup dedicated to making maths more interactive, playful and fun. My work has focussed on building interactive tools for Mathigon's Polypad, an interactive whiteboard used by  $\approx 500k$  users a month. I have thoroughly enjoyed being able to contribute who's values I align with so strongly, and who is making a significant impact on the landscape of digital education, shaping the way for how teachers can make maths more fun and engaging.

**Teacher - College of Magic** Jan. 2015 - Sept. 2020  
Volunteer teacher of magic, illusions, performance theory and showmanship. I have taught students aged 9-17. Finding myself in multiple positions of mentor-ship, I have tried my best to nurture and guide students, cultivating their love for magic and their skills as performers. Responsibilities have included managing multiple curricula, creating and running lessons, training students, assisting teachers, performing magic and managing events.

**Software Engineer - Agrigate One** Mar. 2020 - Sept. 2020

I gained extensive experience working with a small team contributing to a platform dedicated to aggregating and interpreting all data points across the fresh produce supply chain.

Working on small team was fulfilling, and allowed me to make significant contributions to improve the platform and user experience. I thoroughly enjoyed being given autonomy in my work and working closely with more experienced developers.

Specific technologies used: Ruby on Rails, Angular, Heroku, Postgres and Git-Lab.

**Software Engineer Intern - Amazon Web Services** Nov. 2019 - Feb. 2020  
3 month internship working on back-end support. I chose to work primarily in Python, although was exposed to some Ruby and Java. I gained familiarity and competence with many native AWS services, including Lambda, Step functions, CloudWatch, API Gateway, etc.

**Software Engineer Intern - Superbalist** Jun. 2018 - Jul. 2020  
Interned for 4 weeks, working with the Growth team. We were responsible for attracting new customers to the platform and achieving higher conversion rates of existing customers. I worked on an internal web app that allowed for hyper-targeting of users. Worked on front-end and back-end aspects of the project, using a combination of Python (Django), HTML, Javascript and Zephyr.

**Tutor** Jan. 2014 - Jan. 2017  
I started Eureka Tutors, a private company aimed at providing top quality tutors to students in need. I have tutored maths, physical sciences, life sciences, information technology and computer science to learners from Grade 8 to 1st year university.

## Volunteer experience

**Tutoring program at College of Magic**  
Initially, I started tutoring two students with maths and physical sciences. Several students then began approaching me, asking for more help. Subsequently, I started a volunteer tutoring program aimed at helping current College of Magic students with ongoing schoolwork, with a focus on STEM subjects.

**Volunteer teaching** Nov. 2016 - Jan. 2017  
Volunteered as a teacher to assist with Maths and Physical Sciences for Axium Education in the Eastern Cape, South Africa.

**First line healthcare** Jun. 2015 - Jul. 2016  
Volunteered at clinics around Zithulele, Easter Cape delivering first line healthcare (pap smears, BP tests, heart rate, glucose, HIV).

Honors

Graduated with first class honors (University of Cape Town)	2019
Dean's Merit list (University of Cape Town)	2018
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