ALEX KENNEDY

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WORK EXPERIENCE

Google

Software Engineer, Site Reliability Engineering

Feb 2021 – Present

- Google Cloud Storage, Site Reliability Engineering.
- Responsible for data integrity, infrastructure management, and emergency response for one of the largest storage systems in the world.
- Saved $XXM leading a complex infrastructure optimization project.

Software Engineering Intern

2019-20 Summer

- Built a tool to analyze predictions of global network use.

Quantiful

Junior Data Scientist

2017-2018

- Summer internship and part-time for 6 months.
- I joined the team at a pivotal time, and helped build and ship our demand forecasting platform, aimed at reducing waste through better planning.

EDUCATION

University of Auckland

Bachelor of Engineering (Hons) in Engineering Science *conjoint*
Bachelor of Science in Physics

2016-2020

- **GPA**: 8.8/9
- Studied courses across engineering, physics, astronomy, digital ethics, anthropology and drama, achieving a grade of A or A+ in each.
- 9 First in Course Awards.

University of California, Berkeley

Exchange, Physics Department

Fall 2018

- **GPA**: 3.75/4
- I studied physics, planetary science, and political science.
- I participated in the semester-long course "Global Leadership for the 21st Century" hosted by the Robertson Center for Intercultural Leadership.

PUBLICATION

Lead author of a peer-reviewed journal article describing a novel technique to assist in finding planets outside our solar system.

A. Kennedy, G. Nash, N. J. Rattenbury, and A. W. Kempa-Liehr, "Modelling the projected separation of microlensing events using systematic time-series feature engineering," *Astronomy and Computing*, vol. 35, Apr. 2021. DOI: 10.1016/j.ascom.2021.100460.

AWARDS

Cecil M Segedin Prize In Engineering Science awarded for gaining the **highest grade in my Honours research project** for Engineering Science.

Senior Scholar Award in the Faculty of Science, granted to students who "obtained the highest marks in their faculty".

Named on Engineering **Dean's Honours List** in each year eligible.

2020 Department of Physics Scholarship.

University of Auckland Scholarship, granting 3 years full tuition.

Recipient of the Beca Part IV Engineering Scholarship (2019).

TUTORING

- University of Auckland Teaching Assistant (2019).
- Engineering tutor, O'Rorke Hall (2018).
- Physics and mathematics tutor, Crimson Education (2016).

LEADERSHIP

Resident Advisor

O'Rorke Hall – 2017

- I was responsible for the well-being of 35 first year students. As a first point-of-contact in a transitory stage for so many, I was stunned by myriad challenges people face. It's the most difficult job I've ever done.
- By building trust and showing empathy, I believe I helped build a truly positive community, and was able to offer meaningful support to people in some of their hardest moments.

Dean's Leadership Programme

Sir Colin Maiden Scholar

- A selective programme recognising and strengthening leadership potential among engineering students.
- The programme included leadership workshops and sessions with industry leaders.

CULTURE

Auckland Engineering Revue

Executive Director 2019
Member 2017–2020

- The Engineering Revue is an annual stage show produced entirely by our team of around 100 students and attended by nearly 2,000 annually.
- In 2019, I led the team as Executive Director, selected by my peers, and variously acted, danced, wrote, and directed through 2017–2020.
- Our show is silly, but our vision is grand: to redefine engineers as creative, to be a home for everyone.

Young Shakespeare Company (2016)

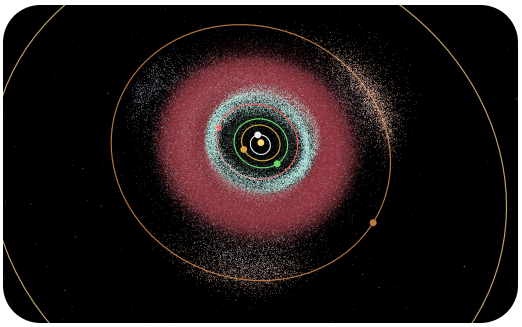
- Represented NZ performing at Shakespeare's Globe Theatre, London as a member of the Shakespeare Globe Centre New Zealand **Young Shakespeare Company**.
- Selected to a troupe of 24 from over 5,500 performers.

PROJECTS

Some educational physics projects I work on for fun.

A 3D visualisation of the asteroids in our Solar System.

alexk.nz/solar-system



A simulator showing the quantum states of electrons in a Hydrogen atom.

alexk.nz/quantum-hydrogen