

# Derek Reissenzahn

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## EDUCATION

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### University of Cape Town

Jan. 2019 – Dec. 2021

*BSc. Pure Mathematics and Computer Science*

- Vice-Chancellor's Scholarship (2019).
- Dean's Merit List (2021).
- Degree awarded with distinction and distinction in both majors.
- Overall GPA: 88.53%.

### Bishops Diocesan College

Jan. 2013 – Dec. 2018

*National Senior Certificate*

- 2<sup>nd</sup> place Western Cape NSC matriculant (2018).
- Dux Scholar (2018).

## EXPERIENCE

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### Software Development Internship

Dec. 2020 – Feb. 2021

*Skynamo*

- Slack bot for managing Android Releases deployed using Terraform.
- Real-time bi-directional service integration.

### Software Development Internship

Dec. 2019 – Jan. 2020

*Polymorph Systems*

- Outlier detection models for detecting anomalous readings from IoT sensors.
- Fault-tolerant architecture for running data science workloads using Kubernetes.
- Web client application for management of datasets and reviewing model output.

### Software Development Internship

Jun. 2019 – Jul. 2019

*Skynamo*

- Collaborative filtering recommendation engine using singular value decomposition.
- Graphical client application for submitting support tickets between departments.

“Derek was able to add real business value on multiple projects assigned to him. Derek was friendly, easy to work with and extremely capable.” — *Wim Morris, COO at Skynamo*

## CURRENT PROJECTS

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- **reissenzahn.com** – writing with a focus on data structures, network protocols, object-oriented design, distributed systems, Linux, etc.
- **dtorrent** – efficient implementation of BitTorrent Protocol v1.0.
- **barman** – web tool for intelligently managing cocktail recipes.