CARLA
WILBY

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EDUCATION

BScEng Electrical and Computer Engineering cum laude

2014 to 2018
University of Cape Town

• Distinction for Honour's Thesis	2018
• Recipient of the Klaus-Jurgen Bathe Leadership Scholarship	2016-2018
• Dean's List	2014, 2015
• Training Manager - Robogals Cape Town Chapter	2015, 2016
• Lead - Engineers Without Borders Wind Turbine Project	2015
• Google Student Ambassador	2015

Kingswood College

Matriculated 2013
Exemption with 7 distinctions (IEB)
Grahamstown, Eastern Cape

SKILLS

- Certified Associate Google Cloud Engineer (2019)
- Full-stack system design and development
- Development Operations (Agile and SCRUM methodologies)
- Version Control, Revision Management systems, Pipelines
- Cloud-based and serverless system architecture design, implementation Performance and scalability optimisation (GCP, AWS)
- Test Driven Development (JUnit, Mockito, Spring MVC, Mocha)
- Code optimisation (data structures, dependency injection etc)

LANGUAGES, PLATFORMS & FRAMEWORKS

MOST COMPETENT		LEAST COMPETENT
• Native Android Java	• Ruby	• ReactJS
• Java - OOP, Spring MVC	• C++	• PostgreSQL
• Git	• AWS Software - Lex, Lambda, Step Functions	• Embedded systems - C, Assembly
• Javascript, Frameworks - Nodejs, Vuejs	• Mobile Development with Flutter	• Mercurial
• Angular Typescript framework	• NLP with Dialogflow, SciKit	• Octave, MATLAB
• Tensorflow, Keras, GCP Vision AI		
• Python		

EXPERIENCE

CO-FOUNDER AND CTO

Zelda Learning (August 2017 - present)

- Inception and ideation, critical management and stakeholder decision-making
- Design and development of the software systems and cloud service architecture
- Native Android app development, deployment and user experience testing
- Data storage architecture
- Development of the Client-side Web Portal in Angular
- Management of a team of junior software engineers
- Development of tech strategies to further company goals

PRODUCT OWNER

Reflective Learning (September 2019 - present)

- Cloud software architecture design (GCP with Cloud Functions, App Engine)
- Development of Client Interface in Vue.js
- Development of server-side API in JS and Nodejs
- Company-level tech planning (UX design, user testing etc)

INTERNSHIPS

Amazon Web Services (July - December 2017)

- Development of Automated Auditor for large scale system
- Used AWS tools such as EC2 instances, Step Functions
- Ruby, Java, Spring testing and integration
- Team operational improvement of the month award

Praekelt Foundation (May - June 2017, January 2016)

- Work on the MomConnect USSD Platform
- Data analysis and querying with PostgreSQL
- Development of FAQ chatbot using AWS Lex
- Documentation (Sphinx), testing and integration (Travis CI)

Altech Internet Solutions (June - July 2015)

- Development of automated deployment system using Bash and ANT
- Testing and integration of system

ThoughtExpress Semantic Technology (December 2014 - January 2015)

- Development of Docker deployment and pipelining system
- Data processing, querying and extraction using MongoDB
- Data visualization with NodeJs and D3

OTHER

Doors Inc. (2014)

- A startup with Engineering Dept colleagues. Household IoT Automation for electricity tracking and management.
- Development of prototype and web platform design
- Finalists of the LaunchLab Start-Up Awards 2015

Honour's Thesis Published

- **"Chatbot in isiXhosa for Remote Pre/Post-Natal Care".** see publication: https://e

National GirlCode Hackathon 2019 Winners

- Developed Whatsapp chatbot for learners to upload a picture of a maths equation a