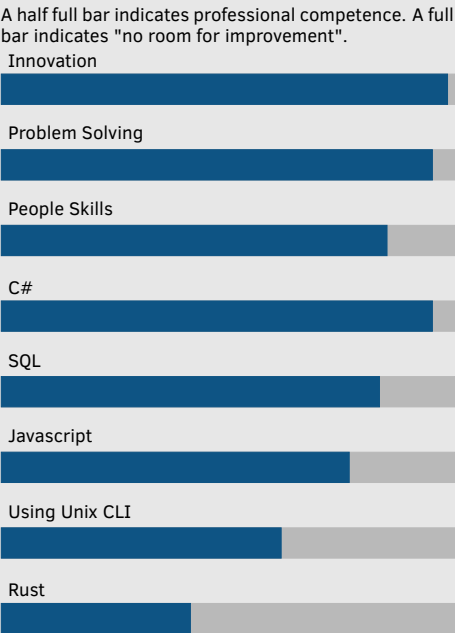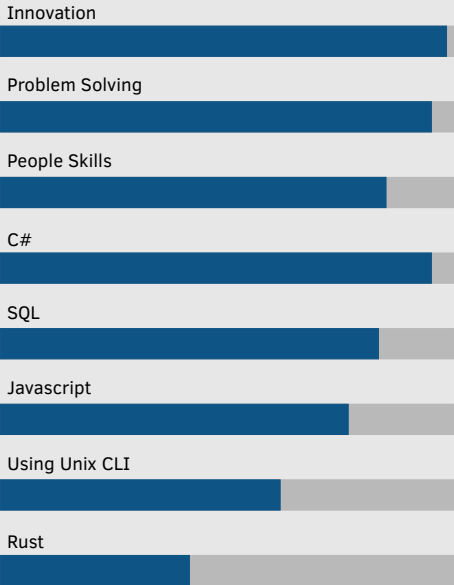# Arie Roos
Developer

- 16 September 1989
- Gezina, Pretoria, South Africa
- +27 12 345 6789
- github.com/arieroos
- ariechildofgod@gmail.com

About me

I am an eneregetic, curious and creative developer. My love for code is driven by my love for math, algorithms and logical puzzles. I love exploring new ideas, and am always willing to learn. I like people about as much as I like logic, and therefore I work best in a small team. It is easy for me to be self-motivated when I am surrounded by peers, but I tend toget distracted when I am alone. I flourish in work environments where I can be creative and innovative. I prefer to work in an unstrucutred environment, because it is better suited to innovation.

Skills

A half full bar indicates professional competence. A full bar indicates "no room for improvement".

Innovation

Problem Solving

People Skills

C#

SQL

Javascript

Using Unix CLI

Rust

Interests

I am a thinker, I love Math, Puzzles, Theology and Philosophy. I am also curious, and always appreciate new knowledge. I like to keep active and spend time in nature.

Education

2009-2012	B.Sc. Mathematical Sciences	Stellenbosch University
	Majoring in Computer Science	
2003-2007	High school	Brackenfell High School
	Computer Studies, Math, Science, Biology, English, Afrikaans	
2017	Life Coaching Certificate	New Insights (Distance Learning)
	A two-year course in Life Coaching including 50 hours of practical work.	

Experience

2018-Now — **Software Developer** — *Itecho*

We developed a product, called Aircost, for automating the business and engineering processes of a ducting factory.

- I developed the parameterised models on the project, which included a lot of Mathematics and consulting with the client's mechanical engineers.
- I built a very nice library for computational geometry.
- On the frontend I built and displayed a few 3D models, and built user interfaces to record parameters for the models I developed.
- I wrote a genetic algorithm to improve nesting, we managed to reduce the client's offcuts by up to 25%.
- I helped to develop the MVC flow for the model parameters.

I gained experience in client relations, C#, .NET Core, EF Core, Javascript, vue.js, and PostgreSQL.

2017-2018 — **Life Coach** — *Self Employed*

I had my own life coaching practice. I worked with clients on a one to one basis to help improve their lives, and I also presented a few self-improvement workshops. I helped people to quit smoking, get their lives back on track after traumatising events, improve their social lives, etc. My work was non-technical, but I did learn a lot about people, leadership, motivation and public speaking.

2016-2017 — **DevOps Engineer** — *Airvantage*

I moved to Airvantage when they bought my product and team from VAS-X. I picked up some development responsibilities after the move.

- I worked with the developers to get bugs fixed. I developed some of the patches myself. I investigated the other bugs, and communicated my findings to the developers, so that they could focus on the fix.
- I was responsible for reconciling our data with our biggest client's data.
- Analysing data to find meaningful information.
- Generating meaningful reports using SQL.
- I was on call every third week, in which I had to respond to after-hours issues within SLA times. And deploy patches at night when the systems were quiet.
- I interfaced with corporate clients often, making sure to complete the necessary documentation for every issue or patch.
- I did a lot of second line support tickets.

I worked for an excellent CTO, who encouraged us to automate our work. I gained a lot of experience in SQL (in Oracle).

2014-2016 — **Support Engineer** — *VAS-X*

I was part of the team running an Airtime Advance System at multiple telecom companies. My duties included mostly operational work, 2nd-line support tickets, generating reports from SQL, and regular interaction with corporate clients. I picked up a lof of SQL (in Oracle) and experience and wrote some awesome SQL queries.

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2014	Software Developer	iPLan Industrial Engineers

At iPlan I wrote extensions and interactions for Syspro(an ERP System) using C#.NET. I also integrated a few Excel sheets with Syspro, using VBA.NET. I also gained experienced with MS SQL

2012-2013	Software Engineer	Libralex

At Libralex I worked on 2 projects, VetMaster and a product for remotely controlling geysers. Vetmaster was a legacy project that I maintained, supported and expanded. I developed the geyser control system from scratch, and wrote a lot of concurrent code for it. I was solely responsible for both projects.
I gained experience in VB.NET, C#.NET and MS SQL

2010-2011	Tutor	Stellenbosch University

While studying I created value by tutoring younger students. I also did various jobs during university holidays.

2008	Camp Facilitator	Wortelgat Outreach Trust

Between school and university, I spent a year working as a camp facilitator. I worked a lot with children and teenagers, teaching various soft skills through camp activities. During downtimes I helped with camp maintenance.

Personal Info

I am first and foremost a Christian. I take a heavy interest in theology, and in what it means to be a Christian. My family is also very important to me, and I will go to great lengths to ensure that I spend enough time with my wife and my son. I like the outdoors, so I often spend time walking my dog, mountain biking, or just enjoying nature with my family.