

Hugo Pretorius

Mobile Software Engineer + Designer

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Home: **Los Angeles, U.S. (Green Card holder)**

From: **Cape Town, South Africa**

Work Experience

Contractor - Senior Mobile Engineer

Undisclosed (Events Industry)

Dec 2020 - Present

- Built using AWS Amplify, GraphQL, Flutter, Firebase
- Supported web, iOS and Android
- Implemented **unit**, **widget** and **robot/integrated** tests
- GitLab Pipeline (CD/CI)
- Established QA environments (web), TestFlight, Play Store
- Implemented analytics, performance monitoring, crash & error reporting
- Performed code reviews and peer programming
- Built a custom router for design preview via URL and native mobile navigation
- Built in whitelabel support on navigation, theming, pages & features
- Built a notification service using Cloud Functions + Scheduler
- Wrote all technical documentation project wikis
- Drew architectural, flow and system diagrams
- Prototyped personalization based on attendee interests
- Delivered a proposal of a unified design system to team of directors
- Migrated Flutter codebase to **sound null safety**
- Created a D&I glossary to support a more inclusive environment
- Received an offer for a full time position

https://drive.google.com/open?id=13ok6z4YR_F-ucnv51t4pouC0b_NG4GN5

Founder

The Scatterbrain App Ltd

Jan 2019 - Present

- Built with Google Cloud & Flutter
- Launched on Web, iOS and Android

- Wrote technical documentation + wikis
- Bitrise (CD/CI)
- Animations using Rive + Lottie
- Authentication with Google, Apple & email
- Sought and employed business oriented cofounders
- Established agile team operations

<https://thescatterbrain.app> <https://apps.apple.com/us/app/scatterbrain-lists-tasks/id1516793066>

<https://play.google.com/store/apps/details?id=app.thescatterbrain>

Senior Mobile Engineer

Microforest Ltd

October 2017 - December 2020

- Built with React Native + Mapbox + APIs + ArcGIS
- Launched iOS and Android
- Implemented native Mapbox SDKs
- Maintained codebase through numerous RN versions
- Traveled to delivered technical presentations to clients
- Implemented crash reporting and performance monitoring
- Weekly analytic reports
- CD/CI Bitrise
- Designed and exported application assets
- High performance and offline map support
- Mentored a junior developer to promotion of Mobile Lead

<https://microforest.co.za/> <https://apps.apple.com/us/app/microforest/id1460352694>

https://play.google.com/store/apps/details?id=com.microforest&hl=en_US&gl=US

Senior Mobile UX Designer (start) => Mobile Engineer (promoted)

Media 24, 24.com

- Mobile app development - React Native for iOS & Android
- Front-end development
- Data driven prototyping
- Redesigned entire product interface on web, iOS and Android
- Dsigned and tested UX research and ideas
- Built whitelabel builds to enterprise customers
- Creative & product strategy

<https://www.24.com/>

UX/UI Designer & Developer

Wyzetalk *July 2014 - October 2017*

- Front-end web development
- Prototyping

- Web UX/UI design
- Mobile app UX/UI design
- Inhouse and partner brand management
- Design team lead

<https://www.wyzetalk.com/product-solutions>

Other Flutter Projects (Some on hold due to contract stipulations)

Yama ("pranayama")

Yama is a breathwork app similar to that of Apple Watch's "Breathe" app and works on Android and iOS. Yama will facilitates mindfulness in a busy world and promote health through meditation and breathwork.

<https://drive.google.com/file/d/1bxNzepGOFQ7HASFJpIGkEIJnclvZgBvg/view?usp=sharing>

Sponsor

Sponsor aims to connects people from all around the world in support of one another based on addictions, challenges and goals. Simply create your anonymous profile, choose your topics and let the app suggest support connections.

Flexinova

POS (Point of Sales) mobile app using ML Kit to scan any barcode or QR code formatted stock items, synchronizing worksheets and stocktakes. Soon to be rolled out in South African fuel station shops.

Nido (Friend Theory)

Nido - called Friend Theory at the time - is a free group communication tool designed for university clubs and societies. I helped out on this project as a freelance Flutter developer March/April 2019 for 6 weeks when they were applying for funding.

<https://getnido.com/about>

https://play.google.com/store/apps/details?id=com.friendtheory&hl=en_US&gl=US

Resume

Simply hosted a Flutter web project to display this [README.md](#) file

<https://hugopretorius.dev>

Education

Dublin Institute of Technology, Ireland

Digital Technology, Design & Innovation Bachelor of Science Hons

Minors: Math, Information Technology

First Class Honours - Feb 2018

Coursework:

- Mobile Development
 - MVC Application Framework
 - Computational Thinking
 - International Team Projects
 - Entrepreneurial Projects
 - Front-End Dev. Web & Mobile
 - UX & Responsive Design
 - Industry Projects
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University of Stellenbosch, South Africa

Sport Science Bachelor Degree

Minors: GIS, Psychology

First Class Honours - Feb 2018

Coursework:

- Biomechanics
 - Bioenergetics
 - Biology
 - Physiology
 - Exercise Physiology
 - Anatomy
 - Sports Management
 - GIS (ArcGIS)
 - Nutrition
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Certifications

- Google Nanodegree - Android (2017)
 - User Experience Design Short Course - University of Cape Town (2015)
 - Adobe Certified Expert - Photoshop (2013)
 - Adobe Certified Expert - Dreamweaver (2013)
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Technical Skills

Mobile	General	Design	Other
Flutter, Dart, React Native, JS, iOS, Android, Xcode, Android Studio, MapBox, rest API, GraphQL	HTML, CSS, React, Vue.js, GitLab, D3.js, Node.js, GeoJSON, GIS, Cloud Functions, Lambdas, AppSync	Sketch, Ai, Ps, Ae, Lr, Rive, Lottie	Git, Firebase, AWS Amplify, Agile, Scrum, Lean

Other

- First Aid + CPR (2020)