

Benjamin M. Du Preez

Software Engineer at Kabbage, MS Computer Science (HCI) at Georgia Tech

Quick learner with a strong technical background in computer science and engineering. I value working hard to solve interesting problems, creating full-stack web apps, and building delightful products that add value.

Experience

Software Engineer

Kabbage Inc, Atlanta, GA

02/2020 - Present

- Experience Infrastructure team: a cross-functional group responsible for Kabbage's internal design system (Sprout) and ensuring a consistent user experience across all Kabbage products in our Angular web app

Software Engineer Technology Innovation Intern

Chick-fil-A Innovation Center, Atlanta, GA

05/2019 - 08/2019

- Prototyped a native Android [app](#) for Vuzix Blade AR glasses connected to an AWS IoT network, allowing restaurant team members to interact with live order data on a heads-up-display

Graduate Teaching Assistant

Georgia Institute of Technology, Atlanta, GA

01/2019 - 12/2019

- CS 4470/6456: Principles of User Interface Software (Fall 2019)
- CS 4475/6475: Computational Photography (Spring 2019)

Software Engineer

Techairos Consulting, Atlanta, GA

02/2018 - 06/2018

- Helped create a food marketplace with an embedded traceability system connecting small-scale South African artisanal fishers directly to high-end restaurant buyers, built with Angular / Ionic, Node.js
- Increased marketplace restaurant sign-ups by a factor of 14, and earned a feature on primetime national TV

Teaching Assistant

Stellenbosch University, Stellenbosch, SA

02/2016 - 06/2016

- CS (E) 214: Introduction to Object-Oriented Programming in Java, data structures and algorithms

Selected Projects

Signpost (2018) Ionic / Angular, Node.js, SQL

- Led full-stack development of an experimental [social network](#) based on the concept of interactive ephemeral markers, called "signposts" (and representing events, specials etc.), that can be planted on a shared map to enhance interaction of users with the world around them
- Reached the final of the Mercedes-Benz SA Innovation Challenge, tested an Android MVP

LivingBlocks (2019) D3.js, Python

- LivingBlocks analyzes big publicly available datasets (crime, restaurants etc.), driving time, and your personal preferences to create a visual recommendation of where in Atlanta you should look for a home
- Led frontend visualization, designed analytics scoring scheme, contributed Python code to backend

Vinyl (2019) D3.js, Python, AWS

- An interactive visualization tool allowing users to compare any two music artists powered by Spotify data
- Worked on visualization in D3, led development of a serverless backend using AWS Lambda functions
- Received more than 3000 unique visitors in our first week [online](#)

Ubitune (2018) React Native, Node.js, MongoDB

- Ubitune uses background location tracking and the Spotify preferences of people present in a public space (e.g. coffee shop) to automatically play music suited to everyone's tastes
- Led frontend development and pitched as we reached the semi-final of the 2019 InVenture Prize

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Work Authorization

US Citizen

Education

Georgia Institute of Technology

December 2019

- MS in Computer Science
- Human-Computer Interaction Specialization
- 4.0 GPA

University of Stellenbosch

December 2017

- BEng in Electrical and Electronics Engineering
- Certificate of Academic Excellence (2018, 2017)

Relevant Courses

- Data Structures & Algorithms
- Human-Computer Interaction
- UI Software
- Data Analytics & Visualization
- Machine Learning
- Management of Technology

Skills

Java
JavaScript / TypeScript
Angular / Ionic
Node.js
React / React Native
D3.js
HTML and CSS
Python
SQL

Activities and Accomplishments

- Editor of student newspaper *Vires Unitatis* est. 1964
- Top 10 in a data science contest hosted by Capitec, South Africa's biggest bank