# Kenneth Assogba

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24 yo (February 12, 1995)

## EDUCATION

- **Institut de Mathematiques et de Sciences Physiques (IMSP/UAC)** — Dangbo, Benin
  *Master (2) of Science in Fundamental Mathematics and Applications* — Oct. 2018 – Present

- **Institut de Mathematiques et de Sciences Physiques (IMSP/UAC)** — Dangbo, Benin
  *Master (1) of Science in Fundamental Mathematics and Applications* — Oct. 2017 – Jun. 2018

- **Ecole Superieure de Gestion d'Informatique et des Sciences (ESGIS)** — Cotonou, Benin
  *Bachelor of Computer Science* — Oct. 2016 – Dec. 2017

- **Institut de Mathematiques et de Sciences Physiques (IMSP/UAC)** — Dangbo, Benin
  *Bachelor of Mathematics* — Oct. 2015 – Jun. 2017

- **Institut de Mathematiques et de Sciences Physiques (IMSP/UAC)** — Dangbo, Benin
  *Preparatory Classes in Mathematics and Physics (two-year highly selective classes)* — Oct. 2013 – Jun. 2015

## EXPERIENCE

- **Solutis (solutis-it.com)** — Cotonou, Benin
  *Software Craftsman* — Oct 2017 - Present
  - **SAC-TIC Project (sac-tic.tk) (Play Store)**: SAC-TIC allows Beninese populations to be informed in case of break or disturbances of the water distribution network, to receive tricks and advices. Participation in frontend and server (NodeJS + PostgreSQL), development of the landing page, development of the bug notification form.
  - **solutis-it.com**: Design, build and deploy the company's website.

- **EtriLabs (etrilabs.com)** — Cotonou, Benin
  *Jr Software Engineer* — Apr 2017 - Sep 2017
  - **Mongo Manager**: Allows to easily backup any mongodb database to a storage of your choice (AWS S3, Digital Ocean,..). Worked on the backend app with NodeJs and Express. Open Source repository.

- **Python Benin User Group [Community]** — Cotonou, Benin
  *Co Organizer (pythonbenin.com)* — December 2018 - Present

- **Google Developer Group Porto-Novo [Community]** — Porto-Novo, Benin
  *Co-lead (meetup.com/GDG-Porto-Novo)* — Jan 2018 - Jul 2019
  - **Codelab: NodeJS Basics**: Introduction to NodeJS. Presentation.

## PROJECTS

- **Numerical analysis**: 1. Root finding algorithms: Jupyter Notebook containing main numerical methods of solving non-linear equations $f(x) = 0$. Repository.
  2. Numerical ODE: Numerical resolution of ordinary differential equations. Repository.

- **Optimal control and numerical optimization**: 1. Modeling in population dynamics: We study four models including those of Lotka-Volterra and Verhulst. In each case we will do a balance point study and a numerical resolution with Scilab. Repository.
  2. Optimal control of a Schrdinger type equation with the operator splitting and gradient descent methods. Repository

- **Peekaboo (In progress) (Play Store)**: A real time video chat dating app. In charge of the backend development and technical project lead, I faced several challenges: Setting up CI/CD pipeline to automate testing and deployment, implement realtime communication with WebSocket and WebRTC. I was able to work on new technologies such as Docker, Kubernetes and try new architectures: Serverless, GCP Compute Engine, AWS S3 (Cloud Storage).