

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 Supérieure 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 - Aug 2019
 - **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-lead (pythonbenin.com) December 2018 - Aug 2019
- **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 Schrödinger 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).