

ARTHUR K. M DECKER

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Work Experience

Full Stack Engineer **Leidos** **Feb 2021-Present**

Disability Case Processing System

- Built a referral feature on the disability processing system to refer claims to a medical specialist. This reduced disability claim rejections by 20%.
- Collaborated with upstream and downstream teams to develop a claim reprocessing feature to prevent disability claims from going stale. This reduced claim resubmission by 85% and site visits from 174,464 to 105,000 during the first year
- Implemented REST API endpoints using NodeJS and Express.js
- **Tech stack:** React, Node.js, Knex.js, Redis, Flux, Postgres, Nginx, Test (Mocha, Chai, Jest, Selenium)

Software Engineer **NOAA** **June 2019-Feb 2021**

National GIS Map Viewer(<https://viewer.geospatial.weather.gov>)

- Collaborated with 3 junior engineers to reverse engineer and deployed a legacy mapping application. This enabled management to save 10 million dollars that would have otherwise been used to outsource the project and also met congress deadlines.
- Developed a buffer and ring range mapping tool which enables GIS field offices to easily measure the proximity between products or locations on the map. This ultimately drove about 100,000+ visits to the site and a 7% increase in traffic month-over-month in just the first year.
- Developed a wind map visualization to enable forecasters to make informed decisions on the speed and direction of the wind
- Built API endpoints with NodeJS and Express.js
- **Tech stack:** Openlayers, AngularJS, Angular, Django, Local Stack, AWS, Docker, Celery, Redis, PostGIS, PostgreSQL, Nginx, and supervisor, C++

Software Engineer **NumbersUSA** **Oct 2017-June 2019**

Donation Application(<https://www.numbersusa.com/donate>)

- Developed an online donation portal that enabled donors to make payments using a variety of payment platforms.
 - This increased giving by nearly 85% from the previous year
 - Increased site traffic by 27% year-after-year
 - This also reduced the number of audit queries by 7%
- Revamped the user management system which reduced the number of logins compliant by 65%.
- **Tech stack:** Angular, Git, Python, Go, AWS, MySQL, Docker, Flask

Junior Software Developer **Department of Health(Ghana)** **Sep 2009-Aug 2015**

- Developed and deployed an application system for Nursing Schools which increased the number of applicants by 80% and increased revenue
- Developed a National health management system of all health staff which enabled the government to visualize the dearth of health professionals in deprived areas.

Education

Masters Software Engineering, Walden University, MN

Aug 2014-Dec 2016

Methodist University, Ghana, Accra

June 2005-May 2009

Skills

Python, C++, Go, JavaScript, Typescript, Git version Control, React, Angular, Vue JS, Node.js, GraphQL, AWS, Docker, LocalStack, Flask, Postgres

Project

Joules Energy: Collaborated with local electrical engineers to pilot a 145.5 kWh micro grid in Ghana(Africa)
Digital Recognizer: Built an app to recognize the reading on blood pressure monitor images using OpenCV

Voluntary Work

- Mission to North America: Organized a team to help rebuild homes destroyed by hurricane Harvey
- Volunteer @ codePath: Help college students to prepare for software engineering interviews
- Adjunct Lecture at Columbia Community College: Provide all the necessary support to enable students to acquire problem-solving skills necessary for program analysis and development.