

ANNMARGARET TUTU

Full Stack Software Engineer

codeamt.github.io

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Providence, Rhode Island

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SKILLS

Languages

Python, Java, JS, Ruby, HTML/CSS

Tools

Okteto, Docker, Kubernetes, GitHub

Frameworks

Flask, Android SDK, Node.js, React.js

TRAINING

Relevant Courses and Specializations:

- **Machine Learning Engineer Nanodegree** - AWS, Udacity (2020)
- **AI for Medicine Specialization** - deeplearning.ai, Coursera (2020)
- **Android Development Nanodegree** - Udacity (2019)
- **Advanced Data Science Specialization** - IBM, Coursera (2019)
- **Deep Learning Specialization** - deeplearning.ai, Coursera (2018)

Academic Research Appointments:

- **Mechanism Design for Social Good**
Group Researcher (2019-Present)
- **The Data Institute at USF**
Fast.ai Live International Fellow (2019)

EDUCATION

B.S. in Film & Television - Boston University, College of Communications (2013)

EXPERIENCE

Full-Stack Software Engineer

Freelance (Remote)

Jan 2016 - Present

- Develop containerized RESTful APIs/microservices using cloud providers, Python-Flask, Node.js and React.js.
- Built 20+ Material UIs and full lifecycle native mobile Android apps (Java) using MVVM architecture/principles.
- Consult with clients on cloud-based services/distributed patterns for ML pipelines and blockchain computing.
- Attend academic conferences for research/mentoring; volunteer engineering skills to social impact initiatives.

Co-founder, Lead Developer

Blaqbox, LLC (Atlanta, GA / Remote)

Mar 2015 - Dec 2017

- Started a digital agency and led research and development; created product specs, mockups and sandboxes.
- Configured DNS settings, designed responsive pages and built/maintained 35+ MVC apps on remote servers.
- Prototyped cross-platform apps with Meteor.js and MongoDB to increase ecommerce channels for clients.
- Utilized third-party APIs to build a proof-of-concept LAMP stack marketing platform for independent artists.

Data Visualization Engineer

Pagos, Inc. (Cambridge, MA / Remote)

Sep 2014 - Mar 2015

- Surveyed 1500 data officers in the public sector; converted 35% to beta-testers for a BI SaaS product launch.
- Developed a React.js feedback intake form; analyzed data/prioritized feature requests for backend engineers.
- Cleaned and calculated fields from open data in Excel; developed d3.js charts for dashboards/video tutorials.
- Wrote and published a whitepaper for enterprise clients on BI frontend integration for on-premise SQL servers.

SAMPLE PROJECTS

- **Fast Efficient CovidNet** - A COVID-19 Chest XRay classification model deployed as a Streamlit app. ([code](#))
- **WindFarmSpotter** - A Flask API for edge devices; classifies wind farm capacity from satellite images. ([code](#))
- **GymStrategy** - A React.js/Kitura Swift api for OpenAI's gym; demos Python-interoperability in Swift 5. ([code](#))
- **ethICO** - A web3 client built with webpack.js to demo purchasing an asset from an ICO smart contract. ([code](#))
- **PopMovies** - A networked Android app with offline mode for storing popular movies to SQL database. ([code](#))