Akathian **Santhakumar**

4th-year Computer Science and Neuroscience, Deep Learning Interest

akathian.com

github.com/Akathian in linkedin.com/in/akathian

☐ (647)-882-7285 ② akathian.santhakumar@mail.utoronto.ca

KEY COMPETENCIES

Python, Node.js/JavaScript, Java, TypeScript, Matlab, C, Shell Scripting, Haskell Languages

Document AI (Neural Networks, LDA), Image AI (RBF), Classification (Naive Bayes, KNN, Ran-Artificial Intelligence

dom Forest), Clustering (K-Means, GMM), Regression, Dimensionality Reduction (PCA)

Developing Experience Back-End (Node.is, Flask), Database (MySQL, NoSQL), Front-End (Angular, React.is), IoT

(Raspberry Pi Edge Computing), QA (JUnit, Mocha/Chai, Cypress), UI/UX Design (Angular, AWS

Sumerian), Infrastructure (Heroku, AWS, Google Firebase)

Cloud Tools AWS (SageMaker, Rekognition, Comprehend, Lex, Elastic Beanstalk, SQS, SNS, EC2, CodePi-

peline, S3, Sumerian, CloudWatch, RDS), Google Firebase (Hosting, Auth, Realtime Database)



EXPERIENCE

January 2021 Present

Software Developer, BIORENDER, Toronto, ON

Worked on the platform team focusing on features, APIs and the database before moving to the Growth & Acceleration Engineering team to focus on user recommendations, running A/B tests and analyzing data.

- > Coded and A/B tested a scoring function to match over 6k users to field specific templates to investigate whether recommending templates to a user would increase their usage
- > Engineered, trained and tested document classifying and clustering algorithms to recommend templates most similar to the user's illustrations
- > Implemented the Flagsmith A/B testing platform, enabling over 25 developers and project managers to test any number of features risk-free, and investigate whether the feature improves metrics

React.js | Node.js | Python | numpy | scikit-learn | Tensorflow | MongoDB | AWS | Heroku | TypeScript | Git

January 2019 Present

Web Developer & Tutor, Thayahan Arts School, Scarborough, ON

Build and maintain the business' website for 100s of monthly visitors and tutor students

- > Deployed a business website using Angular and Firebase with around 10 reusable components
- > Teach 5 students 1:1 the fundamentals of programming and french while keeping them engaged and interested in the lessons

Python French Math Angular CLI Google Firebase HTML CSS TypeScript Git

September 2019 April 2020

Innovation Engineer (R&D Application Developer), CIBC, Toronto, ON

One of seven members of an agile R&D team following SDLC practices prototyping an interactive digital assistant for CIBC corporate and client use cases.

- > Developed a queueing system using Node. is to determine event processing order, capable of handling over 1k events in a few milliseconds
- > Built a 3-input neural network predicting user's overall sentiment based on their gestures, facial expression and what they say so that the assistant can change how she answers the user's questions
- > Performed research on finding technologies for solutioning the assistant's learning model, UI controls, microphone, and camera set-ups via IoT and AI

Node.js | Python (Al & Edge Computing) | AWS | Agile | Git (GitFlow) | MySQL | Mocha/Chai | React.js | IoT | Jira

PROJECTS

FREELANCE WEB DEVELOPER 2020 - PRESENT

https://ovvisuals.com/, https://becomestrongertogether.ca/

Creating responsive and engaging blogging, e-commerce and brochure websites for clients

- > Built a fully fledged e-commerce web-app for OVVisuals (arts), allowing paypal payments and user login
- > Created a blog and forum website for a mental health awareness organization, allowing for user to seek help or share their stories anonymously

Angular CLI Google Firebase TypeScript HTML SCSS JQuery Bootstrap Git NoSQL

