Erik Båvenstrand

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EDUCATION

- **KTH, Royal Institute of Technology** — Stockholm, Sweden
  Master of Science in Computer Science, Machine Learning — *Aug. 2019 – Present (Jun. 2021)*

- **KTH, Royal Institute of Technology** — Stockholm, Sweden
  Bachelor of Science in Information Technology — *Aug. 2016 – Jun. 2019*

EXPERIENCE

- **Software Development Intern** — Stockholm, Sweden
  Nasdaq — *Jun. 2020 – Aug. 2020*
  - **ISO Message Development**: I worked as an intern on the NCSD development team responsible for the development and support of NMH. The primary responsibility of NMH is message conversion between external formats and internal formats supported by the backend systems.

- **Founder & Software Developer** — Stockholm, Sweden
  Nextline AB — *Jul. 2019 – Present*
  - **Software Development Consulting Company**: I founded Nextline AB to be able to work as a software development consultant while attending KTH. The experience of establishing and operating a company has been a great learning opportunity for me.
  - **Clients**: Since it's establishing, Nextline has been on contract with Fordonsbolaget AB.

- **Fullstack Developer** — Stockholm, Sweden
  Fordonsbolaget AB — *Jun. 2019 – Jun. 2020*
  - **Agile**: I was part of an international development team working in scrum to build a customer-facing web application and an internal tool used by purchasing and the workshop.
  - **Technologies**: The frontend of both applications is developed in Angular JavaScript, and the backend is implemented in Java with Spring Boot. SQL is used to query the databases, and the APIs are built according to the RESTful specification.

- **Laboratory Assistant in Computer Hardware Engineering** — Stockholm, Sweden
  KTH, Royal Institute of Technology — *Jan. 2018 – Mar. 2019*
  - **Lab Examination**: During lab sessions of the course, I examined students on their solutions to the labs. The subject of the labs ranged from assembler and C to programming microprocessors.
  - **Lunch Office Hours**: Lunch office hours were held during lunch to give the students the option to ask for help with the subject. The ability to break down complex concepts and explaining them in a simple but accurate manner certainly improved my communication skills.

PROJECTS

- **Deep Learning Image Colorization**: The project included building a Deep Neural Network using Tensorflow, with associated data pipelines by applying state of the art image colorization techniques and comparing them with more classic deep learning approaches based on regression.
- **Spotify Viral Visualization**: This is a visualization tool used to gain insight into modern music trends on a global scale using data from Spotify's viral playlists. The attributes visualized are aggregated by Spotify and consists of a song's core elements.
- **B.Sc Thesis - Evaluation of Imitation Learning Algorithms**: We implemented and evaluated three different imitation learning algorithms in a simulated racing environment. Python and TensorFlow were used to implement the neural network for the algorithms.

PROGRAMMING SKILLS

- **Languages**: Python, C/C++, Java, JavaScript, Elixir, SQL, Assembler
- **Technologies**: Git, TensorFlow, AngularJS, ReactJS, Jupyter Notebook, scikit-learn, Bash, POSIX Threads, Docker, RESTful APIs, Spring Boot

SKILLS

- **Languages**: Native Swedish, Professional-Level English