

# ROBIN STRINGER

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## SUMMARY

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Software engineer skilled in Python, deep learning, computer vision and web development with more than a decade of leadership and practical experience in challenging military, corporate and non-profit environments. Passionate about deep learning for autonomous vehicles and other applications.

## SKILLS

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**Deep Learning:** Python, TensorFlow, Keras

**Computer Vision:** OpenCV, Matplotlib

**Data:** MongoDB, SQL

**Web:** JavaScript, AngularJS, Node.js, HTML5/CSS3

**Deployment:** Google Cloud, Firebase, Heroku

**Source Control:** GitHub

**Languages:** Good Russian, French, Brazilian Portuguese, Spanish, proficient ASL, basic Arabic

## RECENT PROJECTS

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**Advanced Road Lane Detection** – Developed computer vision pipeline using camera calibration, gradient thresholding, binary color transform and warping to detect lane lines from dashboard cameras

**Sudoku Solver** – Created program in Python to solve Sudoku puzzles using constraint propagation

**Behavioral Cloning** – Replicated Nvidia's end to end learning with convolutional networks to teach a car to drive autonomously around a track in a simulator

**Traffic Sign Classifier** – Implemented cutting-edge deep learning, image processing and GPU technology in TensorFlow to read dataset with 96% accuracy

## PROFESSIONAL EXPERIENCE

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**Udacity, Seattle, WA, Project Reviewer, Jan. 2017 – Present**

- Evaluated students' neural network projects and provided helpful and actionable advice for code improvements

**Web Developer, Seattle WA, Independent, Jan. 2016 — Present**

- Built sites for clients using agile development, JavaScript/Angular for front-end, Node/Express for back-end

**Bloomberg News, New York, NY, Europe Editor, Aug. 2014 – June 2015**

- Edited texts from reporters in Central and Eastern Europe, monitored news wires in several languages
- Boosted 'win rate', a measure of breaking news published before competing agencies, to more than 70%

**Achilles International, New York, NY, Associate Director, Nov. 2012 – July 2014**

- Coached and ran as guide for visually-impaired runners in marathons and triathlons
- Planned and executed logistics for more than 30 athletes during race weekends
- Raised more than \$350,000 through organising a gala and grant writing

**Bloomberg News, London, U.K., New York, NY, Sao Paulo, Brazil, Reporter/Editor, Sept. 2006 – Aug. 2011**

- Reported and edited world news in U.K.; UN and financial crisis in New York; elections and boom in Brazil

**British Army, U.K., Infantry Officer, Rank of Captain, Jan. 2001 – April 2005**

- Commanded platoon of 25 soldiers on training exercises and operations in challenging conditions
- Forged relationships with representatives of diverse populations in post-conflict societies to help plan council elections and productively invest funds from GBP 11 million international aid for reconstruction

## EDUCATION

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**Udacity – Self-Driving Car and Artificial Intelligence Nanodegrees, In Progress**

**University of Manchester, U.K. – Joint BA Hons Russian and French, June 2000**