

Stefan Le Noach

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PROJECTS

TunedIn *A LinkedIn clone built with Rails and React.js/Flux*

[live source](#)

- RESTful single-page app that uses a PostgreSQL database and JSON API for the backend
- Frontend built using React.js, JavaScript, CSS and HTML
- Uploads images to AWS S3, allowing app to scale gracefully

Keyboard Drummer *A React.js rhythm typing game*

[live source](#)

- Integrates Youtube iFrame API to get audio, video, and song metadata
- Makes AJAX requests to Rails database to fetch songs and beats via JSON API

Ruby Extract *Object Relational Mapping*

[source](#)

- Dynamically generates semantic macros via Ruby metaprogramming
- Implements core CRUD functionalities, association macros, and chainable queries

SKILLS

Ruby	Rails	JavaScript	jQuery	React.js	Flux	SQL	Git	TDD
HTML	CSS3	RSpec	SolidWorks	MatLab/Simulink		ROS		

EXPERIENCE

Graduate Research Assistant - *Ecole Centrale de Nantes (Feb. 2015 - Aug. 2015)*

- Developed computer vision algorithms for landing UAVs using PBVS
- Used Matlab/Simulink for testing, then applied CV algorithms to quadrotor with ROS

Mechanical Engineer - *Inch Inc. (June 2014 - September 2014)*

- Lead design of autonomous pet feeder
- Reverse engineered commercial pet feeders to better understand the mechanism that dispenses pet food into the bowl/tray then integrated this mechanism into our prototype

EDUCATION

App Academy *New York, NY (April 2016 - June 2016)*

- Rigorous 1000-hour full-stack programming bootcamp with < 3% acceptance rate
- Coursework: Rails, React, TDD, scalability, algorithms, OOP, coding style, single-page apps, pair programming, and web development best practices

Ecole Centrale de Nantes *Nantes, France (Fall 2013 - Fall 2015)*

- M.S.E. in Robotics
- Master Thesis: Autonomous Landing of a UAV using Visual Servoing
- Graduate Coursework: Computer Vision, Machine Learning, Dynamic Modeling of Mobile Robots, Humanoid Robotics, Serial and Parallel Manipulators

Tufts University *Medford, MA (Fall 2009 - Spring 2013)*

- B.S.E. in Mechanical Engineering
- Undergraduate Coursework: Robotics, Mechanical Design, Fluid Dynamics, Plastics, Thermodynamics, Heat Transfer, Linear Algebra, Multivariable Calculus