MAGNUS CARDELL

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EDUCATION

KTH Royal Institute of Technology — **AUG 2018 – MAY 2020**
M.S. in Software Engineering for Distributed Systems — *Stockholm, Sweden*

St. Olaf College, — **SEP 2014 – MAY 2018**
B.A. in Computer Science and Music — *Northfield, MN*

EXPERIENCE

Lux Science Inc. — **Oct 2017 – Present**
Web Developer Intern — *San Francisco, CA*

- Joined the startup to contribute to the web development. Write and design customer facing interfaces to connect them with back-end databases and API providers.

St. Olaf College, — **Oct 2016 – Present**
Digital Scholarship Intern — *Northfield, MN*

- Help students and faculty with projects concerning design, production, and marketing. Specialize in programming, virtual reality, and 3D modeling.

St. Olaf College, — **June 2017 – Sep 2017**
AR/VR Specialist — *Northfield, MN*

- Worked on implementing augmented and virtual reality into the instruction technology department to be able to support student and faculty with augmented and virtual reality projects. Produced VR creations, support documentation, and held public talks.

PROJECTS

(Find me on Github: *github.com/magnuscardell)*

Choreography Web App
Django, Python, PostgreSQL, JavaScript, Gitlab

- Web application to support group collaborations in the choreography department.
- Featured authentication, database queries, and media storage. Designed with persistent drag and drop UI system.

Personal Assistant
Prolog, Python, Google Calendar API

- Natural language processing application written in Prolog that performs predefined actions from voice commands.
- Grammar parser and TCP/IP server.

STO-detect
C++, openCV, Git

- Face training and recognition program using principal component analysis.
- Tool for filtering skin color and focus on hand gestures.

Laundry Pi
C++, PHP, cURL, Raspberry Pi, HTML, PHP

- Making a washing machine "smart" by connecting it to the internet.
- Raspberry Pi validates the vibration data to update our webpage with what washing machine is in use or not.

SKILLS

Programming (Proficient): C++, Python, JavaScript
Programming (Familiar): Java, assembly as88, Prolog, Scheme, PHP, C, C#, R
Libraries/Frameworks: Django, Node.js, React.js, React-native, jQuery,
Markup/Templating: HTML, CSS, LaTeX,
Data/Databases: SQL, Machine Learning, AWS DynamoDB, Firebase