MAGNUS CARDELL

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EDUCATION

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

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

EXPERIENCE

Handelsbanken Capital Markets. — **Aug 2018 – Present**
Full Stack Developer — *Stockholm, Sweden*

- Continued part-time work after my summer internship concluded while studying my Masters.

Handelsbanken Capital Markets. — **Jun 2018 – Aug 2018**
Full Stack Developer Summer Intern — *Stockholm, Sweden*

- Transferred a CMS web application to an in-house solution that increased speed, improved design, and incorporated content customization.
- Worked both backend and frontend with technologies such as .NET, C#, SQL, and Angular.js.

Lux Science Inc. — **Oct 2017 – Jun 2018**
Web Developer Intern — *San Francisco, CA*

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

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

- Implemented augmented and virtual reality technologies into the IT department to support student and faculty projects. Produced VR creations, support documentation, and held public talks.
- Finished by collaborating with a faculty member to support her grant research into using VR as an interpretive vocabulary for grappling with the Korean Demilitarized Zone.

PROJECTS

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

Choreography Web App — **Spring 2018**
Django, Python, PostgreSQL, JavaScript, Gitlab

- Web application featuring OAuth authentication, database integration, and customer media file storage. Designed with a persistent drag and drop UI system.

STO-detect — **Spring 2017**
C++, openCV, Git

- Machine Learning face training and recognition program from scratch using principal component analysis (PCA).
- Self-calibrating skin color filter and frame parser to focus on hand gestures.

Personal Assistant — **Spring 2017**
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.

Laundry Pi — **Fall 2016**
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++, C#, Python, Java, SQL, JavaScript
Programming (Familiar):	assembly as88, Prolog, Scheme, PHP, R
Libraries/Frameworks:	.NET, Django, NumPy, Angular.js, Node.js, React.js, React-native, jQuery
Markup/Templating:	HTML, CSS, LaTeX, XML
Data/Databases:	SQL, Microsoft SQL Server, Machine Learning, AWS DynamoDB, Firebase