LUCIA EVE BERGER

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EDUCATION

10.2017–03.2019 EUROPEAN MASTER · Master of Science in Computer Science & Software Engineering. Kaiserslautern, GR
Degree awarded by TU Kaiserslautern, FU Bozen and TU Berlin. Bozen, IT
Admission rank: 1st of 1200 candidates, GPA: 95.100.

08.2011–05.2015 MCGILL UNIVERSITY · Bachelor in Computer Science & Economics. Montreal, CA

PROFESSIONAL EXPERIENCE

01.2017–07.2018 GERMAN INSTITUTE FOR ARTIFICIAL INTELLIGENCE (DFKI) · Graduate Researcher Berlin, GR

Implemented a multipurpose application with several integration points and a Java simulation handler.
Designed and built a web scrapper that matched coordinates with open-source weather data.
Redesigned the application's relational database, complete with custom and reusable libraries.
Responsible for two interns, including reporting and delegation of tasks.

01.2017–10.2017 SIEMENS · Software Engineering CO-OP (10 months) Berlin, GR

Built and tested REST API for real time sensor time-series data.
Improved key functionality such as robust querying, data aggregation and stand-alone micro-services.
Engineered custom front-end visualizations for a dashboard providing customer insight.

05.2015–09.2016 GENERAL ELECTRIC · Software Engineer (Edison Engineering Leadership Program) Montreal, CA

Participant in the EEDP program, one of General Electric's six corporate rotational programs focused on developing technical excellence. Selected as 1st of 200 candidates.
Developed scalable web features to increase the dependability of light monitoring systems.
Upgraded iOS code to swift 2.0 for wind turbine localizing application.
Worked with end users to determine and transform their information needs into design guidelines.

08.2014–01.2015 PRATT & WHITNEY · CO-OP Student (McGill Institute for Aerospace Engineering) Montreal, CA

Captured user and system requirements to be used by product owners and QA.
Built preliminary wireframes and design specs.
Created highly precise and flexible unit tests for aerospace equipment.
Conducted user surveys and testing on UI wire-frames to calculate usability.

05.2013–05.2015 MCGILL UNIVERSITY · Undergraduate Researcher Montreal, CA

Cleaned and standardized large samples of data with python dataframes and excel macros to be used by faculty professors for the Institute of Health Care and Economics.
Collaborated with faculty members to design data requirements and appropriate models.

SKILLS

Programming Python (django, flask, pandas, numpy, tensorflow), Java, mySQL, JS (angular, react, node), CSS3, HTML5

Software Weka, Adobe Design Suite,Stata

Language English (Native), French (C1), Spanish (C1), German (B1.2), Italian (A2)

PROJECTS & AWARDS

11.2017–present Uncertainty Framework, Traffic Sign Detection & Modelling Kaiserslautern, GR
Master thesis on quantifying uncertainty in Traffic Sign Detection, with Fraunhofer IESE.

08.2017–present EU Consortium Scholarship Recipient Berlin, GR
Awarded academic scholarship €24,000.year.

10.2017–01.2018 Tweet Classification Bozen, IT
Machine learning project that classified tweets on sentiment and content. Native Bayesian classifier, natural language processing, and weka.

03.2017 TU Berlin Energy Management Certificate Berlin, GR
Recipient of Energy Management certification (Solar, Wind and Heat Transfer).

01.2015 APEX Startup Award (3rd) Fredericton, CA
Delivered energy monitoring application, independently awarded $1000 for innovation.