Lucia Eve Berger

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EXPERIENCE

SIEMENS DIGITAL | Graduate Software Engineering Intern
Jan 2017 - Oct 2017 | Berlin, Germany

- Designed, tested and built REST API in python. Key functionality included improved data aggregation (pandas, elastic search), stand-alone micro-services and external integration with okta and AWS.
- Engineered custom front-end features (D3.js) for a dashboard providing customer insight.

GENERAL ELECTRIC | Software Developer, Edison Engineering Program
May 2015 – Sept 2016 | Montreal, Canada

- Participant in the EEDP (Edison Engineering) program, one of General Electric's six corporate rotational programs focused on developing technical excellence.
- Developed scalable web features with a full stack,using angular.js, django python, celery and postgres for light monitoring systems.
- Upgraded iOS code, converting objective C language to swift 2.0 for wind turbine localizing application.
- All code was reviewed, perfected, and pushed to production.

PRATT AND WHITNEY CANADA | Software COOP (McGill Institute for Aerospace Engineering)
Sept. 2014 - Jan. 2015 | Montreal, QC

- Documented software testing processes and protocol for user requirements.
- Created highly precise and flexible unit tests for aerospace equipment.

RESEARCH

GERMAN INSTITUTE FOR ARTIFICIAL INTELLIGENCE | Graduate Researcher
Jan 2016 – Present | Berlin, Germany
Worked in investigative software development in energy systems project (3 members). Coded a multipurpose application, with several integration points and simulation handler with forwarding to matlab solver. Full stack exposure with java, rails and angular. Designed and built rails REST api, with a web crawler functionality that matches coordinates with open-source weather data using the Euclidean distance.

MCGILL INSTITUTE FOR THE CONVERGENCE OF HEALTH CARE AND ECONOMICS |
Undergraduate Researcher
Mar 2014 – May 2015 | Montreal, Canada
Standardized large samples of data with python data-frames to be used by faculty professors.Interfaced with faculty members to design data requirements and appropriate models.

EDUCATION

TU KAISERSLAUTERN, TU BERLIN, FREE UNIVERSITY BOZEN | MSci in Software Engineering
Start Sept 2017, Expected Jan 2019 | European Master granted in Germany and Italy

MCGILL UNIVERSITY | Computer Science and Economics 2015
Smart-grids and fluctuating pricing in Ontario, Canada. | Montreal, Canada

AWARDS AND LANGUAGES

AWARDS
ERASMUS Scholarship (2016-2019)
Awarded 24,000 (EURO) annually for masters. Ranked 1 out of 1000.
APEX Competition (Jan 2015)
Granted 1000 (CAD) for developing responsive energy application.

PROGRAMMING
Over 5000 lines:
Python • Shell • JavaScript (angular, react)• Rails • CSS
Over 1000 lines:
Java • C • C++ • CSS • PHP • mySQL

SPOKEN & WRITTEN
Native fluency:
English, Spanish (C1), French (C1)
Reading fluency:
German(B1), Italian(A2)