

Rahul D. Ghosal

[LinkedIn](#) | [GitHub](#) | [Portfolio](#) | [E-Mail](#)

SUMMARY

- Software engineer with nine months of experience developing and testing enterprise solutions using Python 3 and JavaScript (ES6).
- Excels at process automation, having developed tools that interface on-premise data stores along with applications used in document creation (MS Office), data management ([Kintone](#)), and printed circuit board design (Zuken CR-8000) and simulation (ANSYS SIwave, Synopsys WaveView). Personal experience in web development using Flask and React.
- Precise about details, while being highly self-motivated and adaptive.
- Values technologies that deliver in performance, maintainability, and scalability.

PROFESSIONAL EXPERIENCE

Ultimate Technologies Inc. (Nagano, Japan)

Apr 2019 – Dec 2019

Automation Engineer

- Proposing enterprise solutions that leverage open-source software and third-party APIs, achieving reductions of approximately 1,000 USD in software licensing costs.
- Co-establishing an IT team responsible for data management, as well as automating and improving production through the adoption and/or creation of software.
- Administering and maintaining the company's cloud database (Kintone) as well as co-administering its on-premise web server.
- Mentoring colleagues on Python and modules thereof for task automation.
- Training in printed circuit board design using Zuken CR-5000.
- Managing the homepage redesign and providing an [English translation](#) thereof.
- Leveraging Japanese and English proficiency to manage overseas projects and market the company to major constituents of the automotive industry in Japan.

EDUCATION

Masters in Global Environmental Studies, Kyoto University

Apr 2017 – Mar 2019

Concentration: Ecological Economics | GPA: 3.861

Bachelor of Environmental Science, Rutgers University

Sept 2011 – May 2015

Minors: Japanese, Philosophy | GPA: 3.813, *Magna cum laude*

CERTIFICATIONS

Algorithmic Design and Techniques, UC San Diego via edX

Ongoing

Curriculum: Asymptotic runtime complexity, searching and sorting algorithms, implementation of dynamic programming and greedy algorithms

[CS50's Introduction to Computer Science](#), Harvard University via edX *Nov 2019*
Curriculum: Linux; memory management, recursion, and data structures (C); TCP/IP and HTTP; front-end web development (HTML, CSS, JavaScript, jQuery, React); back-end web development (Flask); relational databases (SQL)

[GIS Specialization](#), UC Davis via Coursera *Mar 2017*
Curriculum: Fundamentals of GIS; GIS Data Formats and Quality; Geospatial and Environmental Analysis; Imagery, Automation, and Application; Geospatial Analysis Capstone Project

SOFT SKILLS

English (native), Japanese (business level), leadership, project management, public speaking, technical writing, research