Usha Silwal

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SUMMARY

Newly minted MSc in Civil & Environmental Engineering (Dec 2020), with over 2 years overseas field experience helping urban and rural communities implement sustainable environmental water practices, through testing, technologies, and computer modeling methods. *[this is a good summary that peaks my interest.]*

EDUCATION

Master of Science in Civil and Environmental Engineering   December 2020
  Carnegie Mellon University - Pittsburgh, Pennsylvania USA

Bachelor of Technology in Environmental Engineering   September 2017
  Kathmandu University - Dhulikhel, Nepal

PROFESSIONAL EXPERIENCE

[a knit-picky item but I would not write dates like 6/20. keep with writing out the months]

Sustainability Initiative Intern - Carnegie Mellon University, Pittsburgh, Pennsylvania USA   *June 2020*   6/20-8/20
- Conducted Voluntary University review by analyzing various activities of CMU using Tableau as data analysis tool, to understand how Carnegie Mellon University meets UN Sustainable Development Goals

Environmental Engineer - SmartPaani Private Limited, Pulchowk, Nepal   2/18-7/19
- **Team Leader** for group of 48 people, for design and implementation of filtration technologies for groundwater, rainwater, stormwater, and wastewater treatment for projects throughout Nepal
- Created access to clean, safe drinking water through installation of water filtration equipment, construction of water stations, and initiated public health and hygiene education programs to serve 23 children's schools
- Awarded **"Outstanding Women Engineer"** for research, development, and leadership in water sector
  [awesome! but list who gave you this award?]

Water Engineering Intern - Guheshwori Wastewater Treatment Plant, Bagmati Road, Nepal   8/17-12/17
- Assessed treatment plant performance by calculating Total Solids, Total Suspended Solids, Total Dissolved Solids, BOD, COD and Phosphate using laboratory and sampling techniques
- Applied performance assessment with **AutoCAD** to provide plant redesign yielding 70% improvement in removal efficiency

[i might be wrong but some of your font sizes look different. outside of Headers, try to keep the same font size throughout.]

Citizen Scientist - S4W Nepal, Lalitpur, Nepal   4/17-1/18
- Prepared technical reports, sub-contractor bid proposals, cost estimates, engineering design drawing, remedial alternative evaluations, basis of remedial designs, technical design of **remediation** methods
- Field Oversight of Site Contractors to execute remediation projects of storm and sanitary sewers, and wastewater treatment systems
- Performed simulation in **HEC-RAS** to generate water surface profiles of Bagmati River for various designed storm events
- Collected water quality and water discharge data of stone spouts of Kathmandu District to analyze effects of land use change in water quality and flow rate over years using **ArcGIS** and **Python**

SKILLS

Application Software: **AutoCAD**; SOLIDWORKS; OGIS; **ArcGIS**; ERDAS Imagine; Python; MATLAB; SQL; Linux; MS Office Suite; Tableau; MODFLOW; HEC-RAS; HEC-HMS; Visual MINTEQ   *[good list!]*

HONORS

Carnegie Mellon University CEE Department Merit Scholarship - Fall 2019-20; Harold A. Thomas Tuition Scholarship - Fall 2019-20; Francis C. McMichael Tuition Scholarship - Fall 2019-20; Japan SAKURA Science Fellowship - Fall 2017; **Greenovation Startup Challenge Winner** - Fall 2016

[i would list each honor on a separate line. I lost track of which one I was reading with the way you listed them.]