

ELEANOR NICOLSON

Software Engineer

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//GingerElla
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Java ██████████
LaTeX ██████████
Processing ██████
Python ██████████
Scala ██████████
Scheme ██████

Git ██████ IntelliJ ██████ Markdown ██████ MS Office ██████ PyCharm ██████

EDUCATION

08/2014 – 05/2018 **B.A. in Computer Science and B.A. in Classics** [Grinnell College](#)
Composite GPA: 3.6 / CS GPA: 3.7 / Classics GPA: 3.8

01/2017 – 06/2017 **Associate Student, Greek and Latin** [University College London](#)
Semester abroad.

06/2015 – 08/2015 **Summer Intensive Greek Workshop** [University of California, Berkeley](#)
GPA: 4.0 / Equivalent to three semesters of introductory Greek. Attended with the support of Grinnell's Lalonde Fellowship and one of the few academic awards offered by the Workshop.

INDUSTRY EXPERIENCE

04/2019 – now **Alexa Local Search-Data, Software Development Engineer.** [Alexa Auto, Amazon Lab126](#)
"Alexa, find me a coffee shop."

- Guided the foundation of new team: wrote the team charter and defined team processes.
- Acted as Scrum Master.
- Constructed a new algorithm for identifying similar entities from different sources.
- Proposed new design for our data pipeline with focus on efficiency and incremental builds.
- Mentored intern as they implemented a POC of my design for editing entities.
- Built a viewing portal for a key taxonomy tree: reduced cross-team friction and eased developer overhead.

AWS Athena / AWS EMR / AWS S3 / Python / Scala / SQL / Zeppelin

08/2018 – 04/2019 **Alexa Local Search-Platform, Software Development Engineer.** [Alexa Auto, Amazon Lab126](#)
"Alexa, how far away is the airport?"

- Launched product in new country: implemented core feature, identified blocking issues, and resolved them by working with our partner and designing a fall-back option.
- Integrated a new data provider to improve the recall and ranking of a specialized category.

AWS Elastic Search / AWS DynamoDB / AWS S3 / Python / Scala

06/2017 – 08/2017 **Software Development Engineering Intern.** [Alexa Voice Services, Amazon Lab126](#)
Designed and implemented an automated notification service triggered by system events. Service aimed to reduce friction between internal and external development teams and to expedite the AVS Certification Process. Presented design options and design document, demonstrated a working POC, and transferred ownership.
AWS DynamoDB / AWS SNS / AWS SQS / HTML / Java

LANGUAGES

English - native
Latin - proficient
Attic Greek - proficient

HOBBIES

I love to sing and have 10 years of vocal training under my belt. When not traveling, you can usually find me curled up with a good book and a cup of tea.

FAVORITES

Song to Sing: Gerwshin's Summertime
Place to Visit: Prague, Czech Republic
Book: Aeneid or Pride & Prejudice
Tea: Earl Grey

PLEASE FIND RESEARCH EXPERIENCE AND MISCELLANEOUS EXPERIENCE SECTIONS ON REVERSE.

RESEARCH EXPERIENCE

- 11/2016 – 12/2016 **Course Research Asst.** [Grinnell College](#)
Researched: the *basic languages* of weaving, crocheting, embroidery, and quilting; how we can *represent* these *computationally*; how tools *manipulate* and *innovate* on languages.
Created: lesson plans, homework, and readings; *manual* for programmed embroidery and accompanying software; packaged versions of *software* for the class.
- 06/2016 – 08/2016 **Research Position.** [Grinnell College](#)
Researched the state of Computer Science outreach camps and: *organized* and ran a summer coding camp for middle-schoolers; learned how to use and *program* an embroidery machine; *co-authored* papers on our research and the camp we ran.

MISCELLANEOUS EXPERIENCE

- 08/2016 **Assistant Archivist.** [Grinnell College](#)
30-hr contract job. Formatted images for a new, online archive of ancient Roman coins.
- 2015 – 2018 **Tutor: Latin, Greek, Computer Science.** [Grinnell College](#)
 Tutored students in both group and one-on-one settings.
- 2012 – 2018 **Editor.** [St. Ignatius College Preparatory & Independent](#)
Editor-in-Chief, Managing Editor, independent. Focused on stylistic, grammatical, and organizational elements.
- 2015 – 2016 **Caterer.** [Grinnell College](#)
 Prepared, served, and cleaned up catered events.

PUBLICATION

References

DeWitt et al.: Arts Coding for Social Good: A Pilot Project for Middle-School Outreach DeWitt:2017:ACS:3017680.3017795

Anita DeWitt et al. "Arts Coding for Social Good: A Pilot Project for Middle-School Outreach". In: *Proceedings of the 2017 ACM SIGCSE Technical Symposium on Computer Science Education*. SIGCSE '17. Seattle, Washington, USA: ACM, 2017, pp. 159–164. ISBN: 978-1-4503-4698-6. DOI: 10.1145/3017680.3017795. URL: <http://doi.acm.org/10.1145/3017680.3017795>.

DeWitt et al.: What We Say vs. What They Do: A Comparison of Middle-School Coding Camps in the CS Education Literature and Mainstream Coding Camps (Abstract Only) DeWitt:2017:WSV:3017680.3022434

Anita DeWitt et al. "What We Say vs. What They Do: A Comparison of Middle-School Coding Camps in the CS Education Literature and Mainstream Coding Camps (Abstract Only)". In: *Proceedings of the 2017 ACM SIGCSE Technical Symposium on Computer Science Education*. SIGCSE '17. Seattle, Washington, USA: ACM, 2017, pp. 707–707. ISBN: 978-1-4503-4698-6. DOI: 10.1145/3017680.3022434. URL: <http://doi.acm.org/10.1145/3017680.3022434>.

Wolz et al.: Code Crafters Curriculum: A Textile Crafts Approach To Computer Science (Abstract Only) Wolz:2018:CCC:3159450.3162360

Ursula Wolz et al. "Code Crafters Curriculum: A Textile Crafts Approach To Computer Science (Abstract Only)". In: *Proceedings of the 49th ACM Technical Symposium on Computer Science Education*. SIGCSE '18. Baltimore, Maryland, USA: ACM, 2018, pp. 1055–1055. ISBN: 978-1-4503-5103-4. DOI: 10.1145/3159450.3162360. URL: <http://doi.acm.org/10.1145/3159450.3162360>.