

ELEANOR NICOLSON

Software Engineer

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OBJECTIVE

I want to grow as a leader, an innovator, and as an engineer, and so I am seeking a team that will push my limits and the limits of the technology we work on. I work best when I am surrounded by curious individuals with high standards, and when we focus on making products that will stand the test of time and improve the lives of their users.

LANGUAGES, PLATFORMS, & TOOLS

Java		LaTeX	
Kotlin		TensorFlow	
Python		Android	
Scala			

INDUSTRY EXPERIENCE

03/2020 – present **Assistant Platform-Infrastructure & Quality Team.** [Assistant on Auto, Google](#)
"Okay, Google, take me home."

- **Implemented** and **launched** infrastructure improvement to reduce latency for tap-to-read messages.
- **Designed** and **instrumented** key components of performance measurement tool.
- **Implemented** and **maintained** conformance testing framework during major migration.
- **Solved** critical issues as needed, e.g. enabling multi-device arbitration, etc.

Android / Java / Kotlin / Python

04/2019 – 03/2020 **Alexa Local Search-Data, Software Development Engineer.** [Alexa Auto, Amazon Lab126](#)
"Alexa, find me a coffee shop."

- **Proposed** new design for our data pipeline with focus on efficiency and incremental builds.
- **Mentored** intern as they implemented a POC I designed to help curate and maintain high quality data.
- **Built** a viewing portal for a key resource: **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 **re-solved** 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 **reduced** friction between teams and **expedited** the AVS Certification Process.
- **Presented** design options, **demonstrated** a working POC, and **transferred** ownership.

AWS DynamoDB / AWS SNS / AWS SQS / HTML / Java

EDUCATION

08/2014 – 05/2018 **B.A. in Computer Science and B.A. in Classics** [Grinnell College](#)

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

06/2015 – 08/2015 **Summer Intensive Greek Workshop** [University of California, Berkeley](#)

LANGUAGES

English - native
Latin - proficient
Attic Greek - proficient

HOBBIES

I am a songbird with 10+ years of vocal training under my belt. When not traveling, I'm usually curled up with a good book and a cuppa tea.

FAVORITES

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

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.

PUBLICATIONS

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>.