

# 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	<b>Assistant Platform-Infrastructure &amp; Quality Team.</b> "Okay, Google, take me home." <ul style="list-style-type: none"><li>• <b>Implemented</b> and <b>launched</b> infrastructure improvement to reduce latency for tap-to-read messages.</li><li>• <b>Designed</b> and <b>instrumented</b> key components of performance measurement tool.</li><li>• <b>Implemented</b> and <b>maintained</b> conformance testing framework during major migration.</li><li>• <b>Solved</b> critical issues as needed, e.g. enabling multi-device arbitration, etc.</li></ul> Android / Java / Kotlin / Python	<a href="#">Assistant on Auto, Google</a>
04/2019 - 03/2020	<b>Alexa Local Search-Data, Software Development Engineer.</b> "Alexa, find me a coffee shop." <ul style="list-style-type: none"><li>• <b>Proposed</b> new design for our data pipeline with focus on efficiency and incremental builds.</li><li>• <b>Mentored</b> intern as they implemented a POC I designed to help curate and maintain high quality data.</li><li>• <b>Built</b> a viewing portal for a key resource: <b>reduced</b> cross-team friction and <b>eased</b> developer overhead.</li></ul> AWS Athena / AWS EMR / AWS S3 / Python / Scala / SQL / Zeppelin	<a href="#">Alexa Auto, Amazon Lab126</a>
08/2018 - 04/2019	<b>Alexa Local Search-Platform, Software Development Engineer.</b> "Alexa, how far away is the airport?" <ul style="list-style-type: none"><li>• <b>Launched</b> product in new country: <b>implemented</b> core feature, <b>identified</b> blocking issues, and <b>resolved</b> them by working with our partner and <b>designing</b> a fall-back option.</li><li>• <b>Integrated</b> a new data provider to improve the recall and ranking of a specialized category.</li></ul> AWS Elastic Search / AWS DynamoDB / AWS S3 / Python / Scala	<a href="#">Alexa Auto, Amazon Lab126</a>
06/2017 - 08/2017	<b>Software Development Engineering Intern.</b> <b>Designed</b> and <b>implemented</b> an automated notification service triggered by system events. <ul style="list-style-type: none"><li>• Service <b>reduced</b> friction between teams and <b>expedited</b> the AVS Certification Process.</li><li>• <b>Presented</b> design options, <b>demonstrated</b> a working POC, and <b>transferred</b> ownership.</li></ul> AWS DynamoDB / AWS SNS / AWS SQS / HTML / Java	<a href="#">Alexa Voice Services, Amazon Lab126</a>

## EDUCATION

08/2014 - 05/2018	<b>B.A. in Computer Science and B.A. in Classics</b>	<a href="#">Grinnell College</a>
01/2017 - 06/2017	<b>Associate Student, Greek and Latin</b>	<a href="#">University College London</a>
06/2015 - 08/2015	<b>Summer Intensive Greek Workshop</b>	<a href="#">University of California, Berkeley</a>

## 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.

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## 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

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### 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>.

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### 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>.

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### 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>.