Sophie Groenwold

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EDUCATION

University of California, Santa Barbara
Bachelor of Science, Major in Computer Science, Minor in History … GPA 3.8   class of 2022

EXPERIENCE

Twitter, *Software Engineer Intern*   2021
• Developed an API endpoint that serves internal campaign and audit information for Ads management systems
• Built backend infrastructure for team-wide navigation to an API- and GraphQL-first architecture
• Collaborated with engineers across frontend and backend teams to define project requirements and dependencies

UCSB Natural Language Processing Group, *Researcher*   2019 - 2021
• Research advised by Professor William Wang of the UCSB NLP Group
• Worked in computational social science by testing the efficacy of state-of-the-art NLP technologies on variations of language
• Utilized libraries and frameworks such as Keras and Tensorflow with a focus on BERT and GPT-2

UCSB Department of Computer Science, *Academic Tutor*   2020 - 2021
• Assisted students with core concepts such as object-oriented programming, data structures, and complexity analysis
• Worked one-on-one with students to demonstrate debugging, pair programming, and Git workflows
• Courses tutored: CS24, CS32 (C++)

Guardian Life Insurance, *Software Engineer Intern*   2020
• Developed and standardized user provisioning requests using SQL, defining edge cases for future use
• Managed workflow metrics and visualization using Jira and Tableau for an Agile Release Train with 150+ members
• Explored software development through an Agile lens by utilizing SAFe (Scaled Agile Framework)

LEADERSHIP

UCSB Society of Women Engineers, *President*   2018 - 2022
• Lead all of UCSB SWE's professional development, outreach, fundraising, and social programs
• Oversaw an officer board of twelve and promoted diversity and inclusion for female-identifying and nonbinary engineers
• Past positions: External Vice President (2020-21), Outreach Chair (2019-20)

PROJECTS

Biomedical Resource Assessment Diagnosis (B.R.A.D), *In Affilation with Teladoc Health*   2022
• Presented for Distinction in the Major [web app]
• Worked in a team of six to create a medical pre-screening interface to facilitate the consultation process
• Created a pre-consultation chatbot using Amazon Lex, AWS Lambda, Amazon CloudWatch, and the Infermedica API

SKILLS

Languages: C++, Python, Java, C, Scala, SQL, Kotlin, HTML, CSS
Tools: Git, Vim, Unix, GDB, TensorFlow, LaTex, Jupyter Notebook, VSCode, Android Studio, IntelliJ
Practices: Agile, Test-Driven Development, Pair Programming

COURSEWORK

Object-Oriented Design • Compilers • Vector Calculus • Data Structures & Algorithms • Networking • Android Development
Data Science Applications & Analysis • Operating Systems • Advanced Applications Programming • Computer Architecture

PUBLICATIONS

Towards Understanding Gender-Seniority Compound Bias in Natural Language Generation. To appear in Proceedings of Language Resources and Evaluation Conference (LREC) 2022. [paper]

Investigating African-American Vernacular English in Transformer-Based Text Generation. Proceedings of Empirical Methods in Natural Language Processing (EMNLP) 2020. [paper]

AWARDS & HONORS

UCSB Computer Science Student of the Year, 2022
UC Regent's Scholar, 2018 - 2022
Honors College of Engineering, 2018 - 2022
UCSB Computer Science Outstanding Undergraduate Research Award, 2021