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MELODY V. GRIESEN

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(919) 438 – 3480
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OBJECTIVE

To obtain an entry-level position applying practiced technical skills and creative problem-solving.

EDUCATION

North Carolina State University (NCSU) – Raleigh, NC   **Graduating May 2022**

B.S. *Computer Science*, 3.89 Cumulative GPA

Coursework: *Data Structures & Algorithms, Operating Systems, Software Engineering*

CSC Honors. Cybersecurity track. Minors in Math, Music.

North Carolina School of Science and Math (NCSSM) – Durham, NC   **Graduated May 2018**

EXPERIENCE

Software Engineer Intern – Genesys, Durham (Remote)   **May 2021 – August 2021**

- Enable efficient BI analytics on live data via ETL pipeline in AWS
- Prototype new features in Microservices architecture with Java Spring
- Measure performance of data pipeline up to 10M records with Python and Locust

Peer Teaching Fellow (Adv. Java and OOP) - NCSU, Raleigh   **January 2020 - Present**

- Eliminate ~3 hrs grading work per week via software automation (C, Bash)
- Establish consistency & simple onboarding w/ 85 pages of maintained process documentation
- Reputation as helpful and friendly among students – "best TA I've ever had"

TECHNICAL SKILLS

- **Languages:** Java, C, Bash, Python, VBA, VB.NET, SQL, HTML, Lua
- **Tools:** Git, Jenkins, Vim, Swagger, Cucumber, Locust, Spark, Presto, Excel/Sheets
- **Concepts:** OO Design, Algorithms/Complexity, Data Structures
- **Environments/Frameworks:** AWS, Linux, Spring, REST, Cloud, Microservices
- **Databases:** MySQL, DynamoDB

PERSONAL SKILLS

- Proven leader who coordinates teams and communicates under pressure with tact
- Transparent and honest, will notify of failures and mistakes early
- Strong initiative to optimize workflow w/ tooling and improved quality of life

ACTIVITIES

- Research in academia: Low-level pattern matching extensions in C   **January 2021-Present**
  - Adapting academic research into practical implementation; Java prototypes
- Passionate musician and composer: Voice + 6 instruments
  - 3 orchestral arrangements performed in concert   **2015, 2016, 2018**

REFERENCES

Taylor Jones, *Senior Software Engineer*, Genesys

Taylor.Jones@genesys.com
linkedin.com/in/taylor-jones-b192a51b

Taylor Jones was my manager for my summer 2021 internship at Genesys. He has directly observed my software engineering skills in a corporate cloud-reliant environment.

Dr. Heckman, *Director of Undergraduate Programs & Teaching Full Professor*, Computer Science at NCSU

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North Carolina State University
890 Oval Dr., Campus Box 8206
Raleigh, NC 27695

(919) – 515 – 2042
sarah_heckman@ncsu.edu

Dr. Heckman is my supervisor for my Peer Teaching Fellows position. She has seen me consistently contribute above and beyond to the course's development and improvement.

Dr. Jamie Jennings, *Teaching Assistant Professor*, Computer Science at NCSU

(919) – 515 – 3208
jjennings@ncsu.edu

Dr. Jennings is my current mentor for my pursuits in undergraduate research. She has watched me invest myself more and more in the fascinating niche of computer science that she teaches.