

# Nolan Tuttle

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## Summary

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Hardworking and driven Software Engineer who loves working and learning in a fast-paced and challenging environment.

## Technical Skills

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Languages: Java, Bash, Python, C++, C, SQL

Familiar with: HTML, CSS, Javascript/React

Tools: Unix/Linux, Git, Jira, Linode, AWS

Frameworks/Libraries: Spring Framework, Jackson

## Experience

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Study Group Leader

Fall 2024 – Spring 2025

*Grand Canyon University, College of Engineering and Technology*

*Phoenix, AZ*

- Coordinated a study group focusing on Computer Architecture and Operating Systems
- Collaborated weekly with 2-4 students by reviewing course materials and through programming exercises when applicable

## Projects

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Spring Boot Website ([Github](#))

November 2024 – February 2025

- Tools/Frameworks Used:
  - Java, MongoDB, Thymeleaf, REST API, Spring Security, JUnit, Git
- Key Responsibilities:
  - Implemented RESTful API for communication between frontend and backend, allowing users to modify records on the website
  - Integrated a MongoDB database with the Spring Boot application to manage user data in a scalable data format

GaggiaBerry ([Github](#))

March 2025 – Present

- Tools/Frameworks Used:
  - Python, Raspberry Pi Zero 2 WH, Bash
- Objective:
  - Add a PID-style control to a Gaggia Classic Pro espresso machine using a Raspberry Pi Zero 2 WH by running a Python script that reads boiler temperature from a K-type thermocouple probe.
- Key Features:
  - Python script managing concurrent reading/writing of data using mutex locks to ensure deadlock safety.
  - Small GUI design using Tkinter interface to display temperature, relay status, and brewing statistics.

## Education

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Grand Canyon University, Phoenix, AZ

*B.S. Software Engineering*

*Fall 2022 – Expected Graduation April 2026*

Relevant Coursework:

- Algorithms and Data Structures
- Embedded Systems
- Computer Architecture
- Operating Systems
- Object Oriented Programming
- Embedded Systems