Payton Shaltis

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EDUCATION

The College of New Jersey **May, 2023**
BS Computer Science, Philosophy Minor *Ewing, NJ*
- Studied in the TCNJ Honors Program , member of the UPE Computer Science Honors Society, 3.96/4.0 GPA.
- Accrued over 130 hours at the Tutoring Center, providing personal aid in a variety of Computer Science topics.
- Helped plan and execute weekly meetings as Outreach Chair for the Association for Computing Machinery.

WORK EXPERIENCE

Quakerbridge Learning Center **April 2021 – Present**
Intro to Computer Science T.A. & Tutor *Quakerbridge, NJ*
- Helped design and instruct a hybrid Java summer course for 35 high school students from 9th -12th grade.
- Created, administered, and graded all coursework, including original exams and projects.
- Personally met with small groups of students at least twice a week to discuss advanced topics in greater depth.
- Continue to personally tutor individual students in preparation for the AP Computer Science exam.

HCD Research **May 2022 – August 2022**
Web Developer Intern *Flemington, NJ*
- Contributed to the design and implementation of new company survey software and API.
  - Utilized a tech stack including React, Redux, NestJS, and PostgreSQL.
- Fully designed and implemented a number of internal software components using HTML and TypeScript.
- Wrote test cases for multiple projects in RTL and Jest with nearly 95% coverage on completed software.

PROJECTS

TCNJ Library App **HTML, SASS, TypeScript, C**
- Implemented real-time Mac occupancy detection for 6 library computers and repaired occupancy detection for over 50 PCs, increasing accuracy of resource availability for library patrons by over 40%.
- Designed and implemented a computer self-reporting job to manage over 120 library computers.
  - Decreased the number of computers that required weekly inspections by more than 100.
- Led a rigorous advertising campaign that increased app usage over 5x in the first month.

The GOON Card **EJS, Bootstrap, JavaScript, Node, ExpressJS, SQLite**
- Led the design and implementation of project backend, including database design, server route setup, Node environment configuration, and web hosting on HPC cluster.
  - Assisted in the composition of front and backend components throughout the software's development.
- Conducted a variety of user testing methods (AB, universal usability) with over 15 participants to improve accessibility of application interface on mobile and desktop devices.
- Collaborated with 4 group members during development, reviewed most PRs, and assisted in delegating tasks.

SKILLS & INTERESTS

- **Programming Languages** *(in order of proficiency)***:** Java; JavaScript; HTML; CSS; TypeScript; Python; Ruby; C++; C
- **Frameworks and Tools** *(in no particular order)***:** Git & GitHub; Linux; Node; NPM; ExpressJS; Bootstrap; SQL; Jest; React; WordPress; Microsoft and Google Suites
- **Interests:** Progressive and psychedelic rock; guitar; camping; politics; 3D printing; Breaking Bad