Sean McHugh

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Education

Virginia Tech, Expected Graduation May 2019
- Honors candidate for BS in Computer Science and Applied Discrete Math
- GPA: 3.82 (3.78 in CS) (3.78 in Math)

Experience

PIETech Software Engineering Internship – Summer 2017
- Worked with business analyst interns to create a Social Security Calculator and Life Expectancy Calculator to be incorporated in PIETech's MoneyGuidePro financial planning web software.
- Used JavaScript (Aurelia SPA framework), Python, HTML / CSS

NIST Summer Undergraduate Research Fellowship (SURF) – Summer 2016
- Worked with Dr. Jonathon Phillips on a literature review of recent research in human face-recognition, particularly regarding the high-performing "super-recognizers".
- Used R programming to analyze frequency of super-recognizers in general population.
- Asked to speak in SURF Colloquium plenary talks, and awarded Best Plenary Speaker.

Undergraduate Teaching Assistant – Fall 2017 - present
- Selected to be a UTA for CS 3114 Data Structures & Algorithms.
- Held weekly office hours to help students with their programming projects and lecture during help sessions.

WUVT Virginia Tech Radio Station IT Staff – Spring 2017 – present
- Use Agile Development to contribute to necessary code infrastructure at WUVT, which comprises wuvt.vt.edu, track automation, DJ interfacing, and server administration.
- Use Linux, Python (Flask framework), JavaScript, HTML / CSS

Projects

Brevity Chrome Extension (brevity.seanfmch.com)
- Created a Chrome extension that transforms articles into a more readable format by summarizing them and removing extraneous page components such as advertisements.
- Used Python (Flask framework, Newspaper API), JavaScript, HTML / CSS

Budget Calculator Web App (budget.seanfmch.com)
- Built an online budget calculator that tracks current expenditures, forecasts 5-year inflation, and predicts necessary monthly savings for goal purchase.
- Used JavaScript (Aurelia framework), HTML / CSS

Relevant Courses

Software Design & Data Structures	Calculus I, II, Multivariable
Computer Organization I & II	Linear Algebra
Data Structures and Algorithms	Differential Equations
Computer Systems	Introduction to Proofs
Comparative Languages	Modern Algebra

Relevant Skills

Java, C, Python, HTML, CSS (Bootstrap), R, MATLAB, LaTeX, Linux, bash shell, Windows, Mac

Honors and Awards

Dean's List, Virginia Tech, Fall 2015 – present
Honors Program, Virginia Tech, 2016
National Society of Collegiate Scholars, Virginia Tech, 2016
Best Plenary Speaker Award, NIST SURF program, 2016
Mu Alpha Theta (Math Honor Society) Peninsula Catholic HS, 2013 – 2015

Extracurriculars

ACM ICPC Programming Team
Mobile and Web Development Club
Theta Tau Professional Engineering Fraternity
Tutor in Math, Physics, and Chemistry