FILIP MAZUREK

filip@filipworks.tech www.filipworks.tech/ linkedin.com/in/f-mazurek github.com/filipmazurek

EXPERIENCE

Associate UX Designer

Appian Aug 2018 – Aug 2019 Reston, VA

Appian is a low-code platform as a service which specializes in quick deployment for enterprise applications simultaneously on web and mobile

- Created detailed wireframes and interactions for 2 new features every quarter as an expert on iOS and Android application design
- Conducted user testing and research to iterate on features
- Developed training courses on user testing for UX Designers and Product Managers to standardize procedure within the company

Student UX Designer

Duke UX Department Aug 2017 – Dec 2017 Durham, NC

- Identified a need to inform students about exhibits on display in the library and in off-campus buildings
- Conducted user tests and summarized findings to improve library website layout and content

Software Engineer Intern

Appian May 2017 – Aug 2017 Reston, VA

- Built an easy-to-configure expression to simplify pulling data from a database and display it in a custom layout using Java.
- Presented the new feature to the founders of Appian, senior engineers, and customers during Appian's quarterly release demo day

Student Engineering Research Technician

CDC / NIOSH May 2015 – Aug 2015 Morgantown, WV

The Center for Disease Control (CDC) is the US national health protection agency. NIOSH is the occupational health branch

- Used Matlab machine learning to optimize classification parameters for rat breathing data in an investigation to parametrize the effects of silicosis on breathing.
- Found that each dataset required specific calibration depending on breathing chamber used before classification.

Research Assistant

Duke Biology Department Sep 2014 – Aug 2015 Durham, NC

- Performed differential counts on baboon blood treated with the Wright-Giemsa stain to investigate the effects of baboon colonies living near human populations.

LEADERSHIP

Teaching Assistant: Computer Architecture

Duke University Jan 2017 – May 2018 Durham, NC

TA for the Computer Architecture class (CS/ECE 250). Taught students computer architecture principles and the basics of C during discussion sections. Administered and graded exams, graded homework, and held office hours.

Makers Club Executive

Duke University Sep 2016 – May 2017 Durham, NC

Created and led twice-monthly technology workshops which focused on creating practical devices. Taught CAD, 3D printing, Arduino coding with breadboards, and Raspberry Pi use.

EDUCATION

B.S. Computer Science

Duke University May 2018

GPA: 3.78 / 4.00

Coursework

Software Design and Implementation
Operating Systems • Database Systems
Cyberphysical System Design
Medical Device Software Design

PROJECTS

VoogaSalad Java
Design environment and engine for role-playing games

MovieSpin Java Play
A database-driven web app to help users discover and save movies.

QNN PyQuil
A quantum neural network which works as a binary classifier on a very small dataset.

Verification Simulink/UPPAAL
Formal verification of a 4-speed automatic transmission by timed automata. Paired with a physical simulation

Ultrasound GUI Python, C++
An interface which interprets ultrasound data, compensates for harmonic interactions and distance weakening, and creates an image.

Heart Monitor Python
Interface which reads EKG data, detects heartbeats, and displays the heart rate

Heap Manager C
Simulation of efficiently managing computer heap memory

VQU PyQuil
Variational Quantum Unsampling is a verification algorithm based on QNN. It finds operation rotation parameters based on final quantum states.

SKILLS

Programming </>

Java • **Python** • C/C++ • MATLAB
Qiskit • PyQuil • Cirq • ProjectQ

- Specialize in back-end development
- Experience with implementation of quantum computing algorithms