

# Timur Javid

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## EDUCATION

### University of Illinois at Urbana-Champaign (UIUC)

Master of Computer Science (5 year BS/MCS)

Bachelor of Science in Computer Science

Expected Graduation: May 2022

GPA: 3.90

## ENGINEERING SKILLS

•••• Java	•••• Python	•••• C	•••• Golang	•••• C++	•••• JavaScript
•••• HTML5/CSS3	•••• MySQL	•••• C#	•••• Haskell	•••• Rust	•••• MongoDB
•••• Software Dev	•••• React/Redux	•••• NumPy	•••• SciPy	•••• Git	•••• LaTeX
•••• Django	•••• Arduino	•••• FPGA			

## PRESENTATIONS, PROCEEDINGS, AND PAPERS

- Jawad, Mona, Javid, Timur, Lualdi, Colin P., & Angrave, Lawrence (2021, April). *ScribeAR: Design and Use of Augmented-Reality Captioning for Inclusive Education Access*. Paper presented at the American Society for Engineering Education Illinois-Indiana Section Conference Proceedings.

## ACADEMIC EXPERIENCE

### Graduate Research Assistant

May 2021 – Present

Kwiat Quantum Information Group

- Developing a drone-to-drone based quantum communication channel for quantum key distribution (QKD) utilizing a variation of BB84 decoy-state protocol.
- Adapting LDPC codes for QKD error correction and implementing privacy amplification for free-space QKD data using numerical key-rate analysis.
- Improving drone-to-drone locking performance through embedded systems development, such as integrating a high-performance ADC to interface with a RaspberryPi gimbal controller (C++).

### Student Researcher

September 2019 - Present

ScribeAR (Augmented Reality Research)

- Maintaining a codebase for an augmented reality (AR) compatible web application providing live captioning services, utilizing Web Speech API and integrating Microsoft Azure captioning in a React/Redux front end.
- Prototyping hardware using Arduino for sound localization to provide users with directionality in a heads-up display.
- Formulating an experiment to gather feedback on effectiveness of AR-based captioning in an academic setting.

## PROFESSIONAL EXPERIENCE

### Software Development Engineer Intern

May 2020 – August 2020

Amazon Web Services (AWS)

- Spearheaded and prototyped a front-end user interface for an existing command line tool using React/Redux and a Golang backend.
- Led design meetings for the project, gathering and integrating feedback from code reviews and weekly meetings.

## EXTRACURRICULARS

### Director

August 2019 – May 2021

Midwestern Robotics Design Competition (MRDC)

- Built and maintained the organizational website to provide teams and sponsors with easy access to information.
- Established relationships with other corporations for fundraising and sponsorships.
- Initiated media coverage of the competition to increase promotion and awareness.