## Shreyas Khandekar

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July 2023 – Present

Jan 2021 - May 2021

Aug 2020 – Dec 2020

## EXPERIENCE

Hewlett Packard Enterprise	San Jose, CA
• Worked to develop Chapel: a modern parallel programming language being developed at HPE	,
• Designed and implemented parallel sorting algorithms for GPUs.	
• Utilized CUDA libraries and frameworks to enhance sorting and scanning capabilities	
• Fixed multiple bugs with the Chapel compiler in generating GPU kernels	
• Worked on core Module Stabilization efforts for releasing Chapel 2.0	
• Engaged in remote development practices, connecting to servers and HPC clusters through SSH.	
• Collaborated with a team of 20 software developers online using MS Teams, Slack, and GitHub	
CS Buddy Mentor	Jan 2023 – May 2023
Department of Computer Science, University of Arizona	Tucson, AZ
• Mentored 4 freshmen CS students to help them navigate college and the CS major	. , ,
• Held weekly one on one and group meetings to interact with mentees and encourage them to get	*
Software Intern	May 2022 – Aug 2022
Hewlett Packard Enterprise	Seattle, WA
• Developed GPU support in the Chapel language with 2x better performance than the reference	
• Ported the Scalable HeterOgeneous Computing (SHOC) Benchmark Suite to Chapel and reduce	d verbosity by 3x
• Worked on core Module Stabilization efforts	
Software Intern	May 2021 – Aug 2021
Hewlett Packard Enterprise	Remote
• Added interfaces for the Apache Arrow and Parquet Libraries to the Chapel Programming Lang	puage
• Pioneered the design of the high-level abstract interface to reduce verbosity by up to 50 times	
• Won Best in Class award from my site of about 50 interns for exemplary contributions	
Undergraduate Research Assistant	Feb 2020 - Jan 2021
Department of Computer Science, University of Arizona	$Tucson, \ AZ$
• Ported Haskell code into C++ to increase efficiency by two times for the CHiLL-I/E and EPWI	
• Worked with EBNF grammars and JavaCUP to get a performance benchmark against other exp	
• Collaborated with a team of 10 people from different technological, educational, and cultural bac	ckgrounds
EDUCATION	
University of Arizona	July 2019 – May 2023
Bachelor of Science in Computer Science	Tucson, AZ
Bachelor Of Science in Business Administration in Management Information Systems, Honors	
GPA: 4.0/4.0	
Phi Beta Kappa ( $\Phi$ BK) Honor Society	
Technical Skills	
Languages (by skill): Python, C/C++, Chapel, Java, Kotlin, JavaScript, TypeScript, Haskell, MIP	S, HTML/CSS
Developer Skills: Git, Blockchain Technology Certification, Big(O) analysis, Linux, Data Structures	s, make
Projects	
Jeopardy! Solver   Kotlin, Java, Maven, Lucene, Git	Aug 2021 – Dec 2021

- Created a Jeopardy! question-answering computer system to answer questions posed in English like that of IBM's Watson AI • Used web retrieval methods to scrape and index Wikipedia pages as sources for answers
- Answered 30% of Jepoardy! questions correctly as compared to Watson's 80-90%

Reversi | Java, JavaFX, Git

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- Jan 2021 May 2021 • Pair programmed JavaFX GUI application to play Reversi: a strategy-based two-player board game
- Created a heuristic-based computer player for Reversi which is very hard to beat

Todo List | Java, JavaFX, Git

- Developed a simple application that can be used to track tasks and deadlines
- Implemented features for task manipulation and categorization
- Developed with a team of 4 peers and used Github and agile principles to manage workflow

## Casino Royale | Kotlin, Gradle, XML, AndroidStudio

- Developed an Android app to play casino games like craps
- Used an MVCC design model to structure code
- Created dynamic animations and graphic artifacts
- Added a simple yet intuitive user interface with features like Dark mode support