Aadil Bhatti

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Education

Cornell University   **Ithaca, NY**
Master of Engineering, Computer Science   *Expected May 2018*

University of Illinois at Urbana-Champaign   **Champaign, IL**
Bachelor of Science, Mathematics & Computer Science, Minor in Chemistry   *May 2017*
Major GPA: 3.23

Computer Skills

- **Languages**: Java, Python, C++, C, Haskell, Ruby, MATLAB
- **Web Development**: HTML, CSS, JavaScript, Django, Ruby on Rails, Node, React, jQuery, D3
- **Mobile Development**: Android (Java, Android Studio), iOS (Swift, XCode)
- **Other Tools**: Git/GitHub, Amazon Web Services (EC2, S3, DynamoDB, Lambda, Elasticsearch, CloudFormation), Alexa Skills Kit, Docker, Jenkins

Work Experience

Amazon Web Services   **Seattle, WA**
Software Development Engineering Intern, SDKs & Tools   *June 2017–August 2017*

- Joined the SDKs & Tools team which builds plugins, SDKs, and other dev tools for interacting with AWS services
- Built a cross-product service to report plugin / tool crashes to the relevant development team; handled design phase, security check, and production launch
- Won 3rd place in global intern hackathon with Alexa skill that provides family with choices for what to eat, then reports most popular choice to user

University of Illinois   **Champaign, IL**
Undergraduate Teaching Assistant, System Programming   *August 2016–May 2017*

- Developed programming assignments for students as well as course software infrastructure such as testing, continuous integration, and autograding of assignments
- Initiated migration of grading infrastructure to Docker containers, allowing for total isolation of student code as well as specific environment checks

Capital One   **Champaign, IL**
Software Engineering Intern, Information Security & Risk Management (ISRM)   *May 2016–August 2016*

- Built an SDK for iOS/Android apps which generates persistent Device ID for each user and associates with username / password. Used to match devices with users as part of multi-factor authentication support
- Learned about multi-factor authentication as well as development of iOS and Android applications

Projects

Distributed Systems
Built several distributed applications in undergrad distributed systems course using Golang

- A chat application using totally-ordered messaging and failure detection
- A distributed hash table based on Kademlia, a tree-based distributed hash table, including replication functionality
- A distributed transactional key-value store using two-phase commit and lock promotion to allow for concurrent transactions involving shared keys, handling deadlock via cycle detection

Linux in the Browser

- Developed under Professor Lawrence Angrave
- Worked on an in-browser System Programming IDE including C compiler & terminal
- Built a front-end package that transforms static code snippets into live, runnable code using Linux in the Browser as a backend, made to be easy for developers to integrate into webpages
- Wrote and published senior thesis in Illinois Digital Environment for Access to Learning and Scholarship (IDEALS)