

Xian Wang

https://xianwang.io

Email : i@xianwang.io

Mobile : +1-206-234-2818

EDUCATION

- **Duke University** Durham, NC
Bachelor of Science in Computer Science; GPA: 3.73 *Aug. 2014 – May 2018*
 - **Distributed Information System:** This course covers Paxos, Raft, VR consensus algorithms, optimistic concurrency control (Amazon Dynamo, Bayou), two-phase commit, two-phase locking protocol, and Blockchain in cryptocurrency. Course project includes implementation on consensus algorithms, building a distributed replicated load balancing system based on Apache ZooKeeper.
 - **Design and Analysis of Algorithms:** This course covers sorting, searching, selection, dynamic programming, and graph algorithms. Course is theoretical and homework includes solving algorithmic problems with formal proof and run time analysis.

EXPERIENCE

- **Innovation Co-Lab** Durham, NC
Software Developer and Technical Consultant *2015 - Present*
 - **API.colab:** Created Docker-enabled distributed API system in Golang and Node.js for enabling OAuth sign-in and identity retrieval, ad hoc events creation and management, and services for on-campus 3D printers.
 - **Infrastructure:** Established automated continuous integration and delivery pipeline. Improved production software reliability, feature release speed and efficiency of tests.
 - **Web Development:** Developed **Discover**, a Ruby on Rails-based service for matching project founders and the right talents.
 - **roots/ Course:** roots/ Course is a training program for students of any skill level to comfortably start gaining an understanding of how to make use of a variety of tools and technologies. Taught introductory iOS, React, Continuous Integration and Delivery.
 - **Technical Consultant:** Provide technical advice on web technologies, full stack architecture, iOS, Docker, and security.
- **CampusWallet LLC** Durham, NC
Chief Technology Officer *2016 - 2018*
 - **Loyalty Platform:** CampusWallet is a loyalty management and analysis platform for small shops. Users make order and gather loyalty points through CampusWallet. Shops gain insight into their sales data and a platform for sending targeted promotions.
 - **Software Engineering:** Lead a four-developer team. Created iOS apps for shop owners, barista, and customers. Exploring options to build cross platform mobile apps in React Native and Xamarin. Created infrastructure for consistent, highly available transactions, fast feature introduction and efficient on-device testing.
- **Microsoft** Redmond, WA
Software Engineer Intern *Summer 2017*
 - **Test Tokens:** Tokens are revenue-bearing redeemable codes for products. Worked on enabling test tokens in production systems. Developed on-demand test token creation and management.
 - **Cosmos Database:** Cosmos is a SQL-extended data warehouse solution. Worked on analyzing the token database. Created incoming data flow and test token monitoring.
- **Duke University** Durham, NC
Research and Teaching Assistant *2016 - 2017*
 - **Research Assistant - Concurrency and Consistency in Distributed Storage Systems:** Research on single server and distributed caching software using Solid State Drives (SSDs). Work include implementation of reliable UDP compared to TCP.
 - **Teaching Assistant - Discrete Math:** Hold office hours, grade assignment and exams.

PROJECTS

- **Fusion App:** Event recommendation system for Duke community based on interest gathered through collaborative filtering and geolocation.

PROGRAMMING SKILLS

- **Languages:** Go, JavaScript, Swift, Ruby, Python, Java **Technologies:** Docker, AWS, React, Redux