



TIANYAO CHEN

Mobile (Android & iOS) Engineer. Passionate to Explore Web back-end, ML, and Data Science.

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🎓 EDUCATION

Jacobs University Bremen, Bremen, Germany 2018/08 – Present

B.S. Computer Science, Class of 2021

- Featured courses: Algorithms & Data Structures, C & C++, OS, DB, Software Engineering, ML, R.

👤 EXPERIENCE

Jacobs University Bremen, Bremen, Germany 2020/01 – Present

Software Engineer (Part-time) for Rasdaman GmbH

- Working on data cube development for Rasdaman - an Array DBMS - GmbH.
- Leveraged knowledge: C++, Java, Linux, Git, Array DBMS.

Jacobs University Bremen, Bremen, Germany 2019/09 – 2019/12

Teaching Assistant

- Graded homework, exams, and gave tutorials for: Intro to CS, Data Management (from Data Engineering).
- Leveraged knowledge: Haskell, MySQL, Python, GCP, General Computer Science.

TD Tech, Beijing, China 2019/06 – 2019/08

Software Engineer Intern

- Continuously and efficiently delivered significant features to enterprise Android apps on top of the AOSP.
- Wrote comprehensive Python and Batch scripts, which automated the Android custom ROM upgrading process for enterprise Android devices and reduced the upgrade time by at least 67%.
- Leveraged knowledge: Android Development (Java), Git, Scripting, Debugging, SQLite, Linux.

⚙️ PROJECTS

- **Personal Website**: <https://tillchen.com> (for additional info, projects, testimonials, and tech blog.)
- **JStore (Android): Marketplace for Jacobs University** https://github.com/tillchen/JStore_Android
 - Single-handedly built the Android app that enables students on campus to sell and buy items with ease.
 - 100+ commits. 5000+ LOC (Java + XML). 400+ registered users. Available on [Google Play](#).
 - Utilized: Java, Android Jetpack, Firebase (Auth, Cloud Firestore (NoSQL), Storage (GCP))
- **JStore (iOS): Marketplace for Jacobs University** https://github.com/tillchen/JStore_iOS
 - Single-handedly building the iOS app that enables students on campus to sell and buy items with ease.
 - 40+ commits. 1000+ LOC (Swift). 400+ registered users. Coming soon on App Store.
 - Utilized: Swift, iOS SDK, Firebase (Auth, Cloud Firestore (NoSQL), Storage (GCP))
- **4minitz - Meeting Minutes Web App**: <https://minitz.jacobs.university>
 - Deployed, modified, and maintaining the open source web app [4minitz](#) from [GitHub](#) on a Debian server.
 - Utilized: Docker, Nginx, Certbot, cron (auto certificate renewal), JSON, Linux commands, Vim, SMTP.

🛠️ SKILLS

- **Java, C++, Swift, Python, C, JavaScript, Android SDK (Android Jetpack), iOS SDK, Git, SQL, Bash, Firebase (NoSQL), Batch**; Kotlin, HTML/CSS, GCP, Docker, Haskell.
- Chinese(Mandarin) - Native Speaker; English - Proficient; German - A2, Learning.