David Zeng

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EXPERIENCE

- **Metagrab**   Toronto, ON
  Software Engineer   *June. 2019 - Present*
  - Built and deployed a gaming social platform designed for users to **discover** new games, find **upcoming** major release, and **chat** with other users, hosted on **DigitalOcean**
  - Developed backend services supporting user JWT authentication, timeline query and pagination, user voting and posts ranking using **Django**, **Redis**, and **RDBMS**
  - Implemented paginated tree comments loading using **customized Breath-First-Search** algorithm with depth and count parameters
  - Conceptualized and designed UI elements for game releases timeline, user reaction emojis, and threaded comments using **SwiftUI** for iOS
  - Relevant Technologies: Python(Django), SwiftUI, Redis, MySQL, UIKit, DigitalOcean, Git

- **Naborly**   Toronto, ON
  Software Engineer   *August. 2017 - July. 2018*
  - Assisted in migrating search engine from **MongoDB** to **Elasticsearch** by implementing fan-out writes middleware and improved query response time of tenant form searches by more than **75%** in a team of 6
  - Built **React** components for personal ID reuploading feature and reduced invalid personal ID cases process time from **2 to 0.5** days
  - Implemented backend routes connecting landlord, tenant, and in-house support landing pages and their corresponding features (view, approve, notify tenants) to backend services in **Node.js**
  - Relevant Technologies: React.js, Redux, Node.js, MongoDB, ElasticSearch, AWS, Git

PROJECTS

- **Artifact Deck Helper**
  github.com/Artifact-Deck-Helper   *October. 2018 - November. 2018*
  - Built iOS application helping Artifact(online card game) players design, build and share card decks using **UIKit**
  - Integrated with Valve Artifact Card Set and Deck Code APIs for cards and expansion version metadata
  - Relevant Technologies: Swift, UIKit, Core Data, Git

- **Giffy**
  dz-giffy.herokuapp.com   *February. 2017*
  - Built **React.js** website application where users post and share pictures mapped to a geographical location, deployed on **Heroku**
  - Integrated with **Google Maps API** for geo-location support
  - Relevant Technologies: React.js, Node.js, MongoDB, Heroku, Git

PROGRAMMING SKILLS

Languages: Python, Swift, Javascript(Node.js), Java, LaTeX

Frameworks: Django, SwiftUI, React.js, Express.js, UIKit

Server Techonologies: Linux, MySQL, Redis, MongoDB

Tooling: Vim, Postman, Asana, Jira, Agile(Scrum)

EDUCATION

- **University of Waterloo**   Waterloo, ON
  Bachelor of Applied Science in Mechanical Engineering   *August. 2011 - April. 2018*

- **Relevant Coursework**: Fundamentals of Computational Intelligence, Algorithm Design and Analysis, Statistics for Engineers, Advanced Engineering Mathematics