Jonathan Chen

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PROGRAMMING SKILLS

- **Languages**: Java, Vanilla Javascript, React.js, Node.js, GraphQL.js, Python, SQL.
- **Skills**: Full Stack Web Development, PostgreSQL, Machine Learning, Data Science
- **Tools**: Git, Docker, AWS, Prisma, TensorFlow.

EXPERIENCE

- **AdaptivApps** — Remote
  Full Stack Developer — *February 2020 – Present*
  - Built responsive and fully accessible web applications in Javascript and React.js following AGILE and Waterfall methodologies
  - Designed and built REST APIs using Node.js and GraphQL APIs using Prisma and Apollo
  - Processed data through algorithms to increase front end performance by more than 50%
  - Deployed web applications through AWS, implemented Auth0 for authentication and Google Analytics for user analysis, executed unit testing to inspect various web components

- **Xspace Learning** — Vancouver, Canada/Beijing, China
  Teacher Facilitator — *August 2018 – June 2019*
  - Served as math instructor for students at Second High School Attached to Beijing Normal University
  - Delivered planned course curriculum and customized learning plans for students
  - Led school's Computer Science Club and delivered lectures on cryptography topics

- **University of California, San Diego** — La Jolla, CA
  Resident Assistant @ Warren College — *August 2015 – June 2017*
  - Oversaw campus residents' well-being and addressed inter-personal conflicts
  - Organized and led campus programs and events that promoted cultural awareness
  - Planned and executed social and educational events for campus residents

EDUCATION AND TRAINING

- **University of California, San Diego** — La Jolla, CA
  Bachelor of Science in Applied Mathematics — *June 2018*
  - **Courses:** Linear Algebra, Mathematical Statistics, Probability Theory, Object Oriented Programming

PROJECTS

- **Rent Tracker**
  - Developed a web application for users to track their rental properties and rental payment collections
  - Features GraphQL, Express, and JWT authentication on backend

- **Pathfinding Visualizer**
  - Built React application for visualizing pathfinding algorithms and maze-generation algorithms
  - Built custom hooks and created modal components for the project
  - Designed animation effects using CSS animate

- **Housing Price Predictor Model**
  - Constructed a machine learning model using Python to predict house prices
  - Used advanced machine learning techniques through Xgboost and TensorFlow to increase model accuracy by 30%
  - Generated data visualization sets using Python libraries