

# Derek Tran

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## WORK EXPERIENCE

### Technical Support

*September 2017 to present*

*GeoSpatial Technologies, Inc. | Tustin, CA*

Support development team as a mobile and web application developer while conducting inventory and front office duties.

- Improve and maintain front-end (Ext JS framework) and back-end (Java) of client's web application enabling collaboration and communication of agencies and organizations for emergency incidents.
- Enhanced company's proprietary mobile application (Xamarin) that dispatches airport crew for airplane services. Developed feature to show and filter dynamic list of serviceable incoming/outgoing airplanes.
- Manage inventory of over 2000 mobile devices installed with company's software, distributed over more than 20 airports. Tasks include configuration and QA of devices, RMA management, and customer support.
- Wrote user guide documentation for company's mobile application.

### Staff Research Associate

*September 2015 to July 2016*

*UCLA Department of Earth, Planetary, and Space Sciences | Los Angeles, CA*

Collected and analyzed seismic data for professor's ongoing geophysical research on Earth's core-mantle boundary.

- Wrote Bash scripts incorporated with Seismic Analysis Code to filter and analyze seismic data.
  - Reviewed and studied various scientific articles to identify and collect data appropriate for professor's research.
  - Presented weekly updates to professor's research group on results of data analysis and ongoing research activities.
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## EDUCATION

### Bachelor of Science, Software Engineering

*Expected June 2021*

*University of California, Irvine | Irvine, CA*

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## PROJECTS

### SealSpotter (5-person team)

*October 2020 to March 2021*

React Native mobile application that utilizes citizen science to track and report rehabilitated seals released by the Pacific Marine Mammal Center (PMMC). Reports viewed on React web application for verification and analysis by PMMC members.

- Developed back-end REST API service with Java and Spring and connected it to a MySQL database.
- Utilized Amazon Web Services, e.g. EC2 for web hosting, S3 for image hosting, and RDS for database management.

### DotaTracker (3-person team)

*November 2017 to December 2017*

Android application that retrieves and displays a user's game statistics for the online game, Dota 2.

- Used OpenDota API and Gson library to retrieve the game statistics of a user's last 25 matches.
  - Designed UI to display user's average statistics, a list of recent matches, and the statistics of each match.
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## SKILLS

- Languages: Java, HTML, CSS, JavaScript, C#, C++, Python, Bash
- Database Management: PostgreSQL, MySQL/MariaDB
- Tools/Frameworks: Git, Spring, Maven, Node, Ext JS, Xamarin