

# Alexander Ogilvie

SOFTWARE ENGINEER

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## Professional Experience

### Zehitomo

Ichibancho, Tokyo, JAPAN

SOFTWARE DEVELOPER

September 2018 - present

- Developed a local services platform with 1 million monthly active users, connecting the best pros with clients that need them
- Headed a complete rebuild of the mission critical core matching algorithm; Improved both reliability and speed
- Drove the development of a multi-factor weighted sorting system, using predictive analytics and regression analysis; Tripled the number of matches within 1 month of release while improving match quality for users
- Evangelised a test-driven development approach; Consistently added 100+ tests per month to a legacy codebase; Introduced type annotations
- Designed and developed internal tools in collaboration with sales team, allowing them to reach profitability
- Transformed the interviewing process with a focus on testing relevant skills; Interviewed 50+ candidates; Built the current team of engineers
- Overhauled the payment processing system; Created a test suite to enable pain-free external payment API upgrades
- Wrote and published a company style guide and linting/formatting package to enforce consistent style across entire codebase

### Code Chrysalis

Moto-Azabu, Tokyo, JAPAN

SENIOR FOUNDATIONS INSTRUCTOR & FOUNDATIONS CURRICULUM OWNER

July 2018 - present

- Created technical curriculum in collaboration with team of instructors, including presentations and exercises
- Maintained curriculum in response to student and instructor feedback
- Delivered classes both in-person and remotely to beginner- and intermediate-level students

### Seibu Gakuen Bunri Elementary School

Sayama, Saitama, JAPAN

ASSISTANT LANGUAGE TEACHER

December 2013 - March 2018

- Taught English, Music, Art and P.E. to 400 students aged 6-12; Created and led 15 lessons per week
- Adapted the school's internal testing system to use scannable, computer-graded tests, taking seconds to grade a single test instead of minutes
- Organised and directed an English language musical for 20 students aged 6-10, performed in front of the entire school
- Hosted multiple school events as the English-speaking MC

### Oxford University Computing Services

Oxford, UK

HELP CENTRE ASSISTANT

October 2010 - November 2013

- Advised members of Oxford University experiencing IT problems; Resolved problems in person, by email, and on the telephone

## Education

### Code Chrysalis

Moto-Azabu, Tokyo, Japan

IMMERSIVE PROGRAMME

April 2018 - June 2018

- Designed and implemented mobile app using React Native and Redux; Integrated and configured Google Maps/Apple Maps
- Published mobile app on the Apple App Store and Google Play Store; Spearheaded branding for the app
- Hosted a public workshop focused on a deep-dive into JavaScript's **this** keyword

### Pembroke College, University of Oxford

Oxford, UK

MASTER OF CHEMISTRY

October 2009 - July 2013

- Undertook a rigorous 4 year masters degree, with over 180 hours of practical work
- Drove the direction of my own novel research project over the course of a year
- Authored an academic paper which was published in a reputable journal ( *Catalyst-free synthesis of sodium amide nanoparticles encapsulated in silica gel*, *Chem. Phys.*, Vol. 427, 2013, pg 61-65)

## Skills

### Technical Skills

- *Strong* - JavaScript, TypeScript, NodeJS, MongoDB, Express.js, Mocha/Chai/Sinon, TDD, React, NextJS, Redux, AngularJS, HTML/CSS, Pair Programming
- *Experienced* - SQL, Vue, ECS, Redis, Kafka, CI/CD, GraphQL, Swift, XP, 12-Factor Apps

**Languages** - Native English, Conversational Japanese (N3)

**Interests** - Playing piano, teaching programming, eating great pizza, long-distance train rides

**Gap Year Experience (2009)** - Ate a frog in Bangkok, drank a Sling in Singapore, saw bats in Sydney, went surfing in Perth, ate a kangaroo steak in Adelaide, got cultural in Melbourne, learned about volcanoes in Auckland, saw a giant squid in Wellington, sat on the dock of the bay in San Francisco, ate a deep dish pizza in Chicago, walked the Freedom Trail in Boston, snuck into a bar in New York.