

# 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
- Led a team of 4 engineers in development of the company's next-gen product
- Transformed the interviewing process with a focus on testing relevant skills; Interviewed 50+ candidates; Built the current team of 10 engineers
- Evangelised a test-driven development approach; Consistently added 100+ tests per month to a legacy codebase; Introduced type annotations
- 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 simultaneously improving match quality for users
- Wrote and published the company's first style guide and linting/formatting package to enforce consistent style across entire codebase
- Designed and developed internal tools in collaboration with sales team, allowing them to reach profitability
- Overhauled the payment processing system; Created a test suite to enable pain-free external payment API upgrades

### Code Chrysalis

*Moto-Azabu, Tokyo, JAPAN*

SENIOR FOUNDATIONS INSTRUCTOR

*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 over 300 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)
- Volunteered as a college ambassador to widen access; Visited state school in North-West England to promote the University

## 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.