

# BENJAMIN A. HALBACH

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## WORK EXPERIENCE

### VIPKID

*Independent Contractor*

Online

2017-

- Developed independent projects in Python and JavaScript while teaching English and learning Chinese.
- Made a nested note web application using React and Redux with drag and drop functionality.
- Made probability distribution calculators for a role playing game in Python and JavaScript.

### Zhengzhou University of Light Industry

*English Teacher*

Zhengzhou, China

2015-2016

- Taught oral English.

### Calabrio Inc

*Associate Software Engineer*

Minneapolis, MN

2013-2014

- Developed software for call recording and quality management.
- Development in C++ and Java.
- Investigated customer-found defects to find and resolve root code failure.
- Led effort for maintaining record of our products administrative settings.

### The University of Alabama

*Research Assistant*

Tuscaloosa, AL

2012

- Maintained embedded software used for biomedical research.

### Minnesota Supercomputing Institute

*Research Assistant*

Minneapolis, MN

Summer 2011

- Developed novel methods for improving information gained from finite element analysis of biaxially stretched tissues.
- Worked in C++ using numerical linear algebra libraries.

## TECHNICAL SKILLS

- **Languages:** English, Chinese
- **Programming Languages:** Python, JavaScript/TypeScript, C++, Java

## EDUCATION

### The University of Alabama

*Bachelors of Science in Computer Science (BSc), College of Engineering, summa cum laude, 3.9 GPA*

Tuscaloosa, AL

2013

- **Presidential Scholarship:** Tuition + 2,500/year

### The University of Edinburgh

*Additional coursework in Higher Mathematics, Statistical Theory, and Artificial Intelligence*

Edinburgh, UK

2012-2013