

## Yiyun “Ben” Zhang

Highly motivated developer with web and software development skills. A self-starter, attentive to details, resourceful in finding right solutions. Soft skills include patience, perseverance, teamwork and analytical. Passion in learning new technologies and turning ideas into real applications.

Shanghai, China

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## Project Highlights

### Food Scanner - Developer & Tester

09/2017 - 06/2018

- Developed a responsive web application that allows users to check foods or dishes' calories data and store their intake.
- Used Keras API to train and deploy a food recognition mode. Users can upload food pictures to the application and get calorie data in 3 seconds, instead of searching the menu manually.
- Effectively coordinated with a team of 6.

### Film Rater - Developer

09/2020 - 12/2020

- Developed a responsive web application that allows users to add, rate films and view ratings.
- Developed a native android application that integrates the existing web application.
- Tools: Java, Android Studio, React, Node.js, Docker, Express.js, Nginx, MongoDB, JSON Web Token.

### ChessMove Validator - Developer & Tester

12/2020 - 03/2021

- Developed a stand-alone Java application that takes the user's chess board configuration as input and output all possible moves of the target piece.
- Test Java applications using JUnit Testing, EcEmma and SpotBugs.

### Covid Data Mining - Developer

03/2020 - 06/2021

- Participated in COVID-19 data set cleaning, including acquisition, preprocessing, outlier and interval detection.
- Performed time series analysis of confirmed cases in US using three models:

Persistence Model, Autoregression Model and ARIMA Model. Visualized results in corresponding plots.

- Tools: Python, Jupyter Notebook, Google Colab.

### Gemstone Classifier - Developer

03/2020 - 06/2021

- Processed gemstone dataset, used pre-trained data from VGG16 model in Keras API to classify gemstones and evaluated prediction performance.
- Created and trained CNN model that is similar to VGG16 model to classify gemstones and analyzed results.
- Tools: Python, TensorFlow, Keras, Jupyter Notebook.

## Technical Skills

### Tools

Eclipse, Visual Studio Code, Android Studio, Docker

### Programming Languages

Java, Python, JavaScript

### Databases Management

MySQL, PostgreSQL, MongoDB, Oracle

### Data Mining, Processing and Visualization

GCP, Orange, TensorFlow, Keras, MATLAB, Spark, Hadoop, mrjob

## Education

### Master of Science in Software Engineering

Drexel University, Philadelphia, PA

03/2020 – 09/2021

GPA 3.6/4.0

### Bachelor of Science in Computer Science

Drexel University, Philadelphia, PA

09/2013 – 09/2018

GPA 3.3/4.0

## 张奕昀

具有网络和软件开发技能。善于自我学习，注重细节，擅长利用工具找到正确的解决方案。具有耐心、毅力、团队精神和分析能力。对学习新技术充满热情，热衷于将想法转化为实际应用。

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## 项目经历

### 食物扫描应用 - 开发 & 测试

09/2017 - 06/2018

- 开发了一个响应式的网页应用，允许用户检查食物或菜肴的卡路里数据并存储其摄入量。
- 使用 Keras API 来训练和部署食物识别模型。用户可以将食物图片上传到应用程序，在 3 秒内获得卡路里数据来替代手动搜索菜单。
- 与 6 人团队有效协调开发进度和沟通。

### 电影评分系统 - 开发

09/2020 - 12/2020

- 开发了一个响应式的网页应用，允许用户添加、评价电影和查看评分。
- 在网页应用基础上开发了一个集成了该网页全部功能的原生安卓应用程序。
- 工具：Java, Android Studio, React, Node.js, Docker, Express.js, Nginx, MongoDB, JSON Web Token.

### 国际象棋棋子移动验证应用 - 开发 & 测试

12/2020 - 03/2021

- 开发了一个独立的 Java 应用程序，将用户的国际象棋棋盘配置作为输入，并输出指定目标棋子的所有可能的有效移动位置。
- 使用 JUnit、EclEmma 和 SpotBugs 测试该应用程序。

### 新冠疫情数据挖掘 - 开发

03/2020 - 06/2021

- 参与了一个 COVID-19 数据集的清理工作，包括采集、预处理、离群点和区间的检测。
- 使用三种模型对美国的确诊病例进行了时间序列分析。持续性模型、自回归模

型和 ARIMA 模型。在相应的图中对结果进行了可视化总结。

- 工具：Python, Jupyter Notebook, Google Colab.

### 宝石分类识别应用 - 开发

03/2020 - 06/2021

- 对宝石数据集进行处理，使用 Keras API 中 VGG16 模型的预训练数据对宝石进行分类，并评估预测性能
- 创建和训练了一个与 VGG16 模型类似的 CNN 模型来对宝石进行分类，并对结果进行分析。
- 工具：Python, TensorFlow, Keras, Jupyter Notebook.

## 技术技能

### 工具

Eclipse, Visual Studio Code, Android Studio, Docker

### 编程语言

Java, Python, JavaScript

### 数据库管理

MySQL, PostgreSQL, MongoDB, Oracle

### 数据挖掘，处理和可视化

GCP, Orange, TensorFlow, Keras, MATLAB, Spark, Hadoop, mrjob

## 教育经历

### 软件工程理科学士

德雷塞尔大学，费城，宾夕法尼亚州

03/2020 - 09/2021

GPA 3.6/4.0

### 计算机科学理科学士

德雷塞尔大学，费城，宾夕法尼亚州

09/2013 - 09/2018

GPA 3.3/4.0