# Resume Screener Deployment Guide

This guide provides step-by-step instructions to deploy an Automated Resume Screener on an AWS EC2 instance using FastAPI for the backend and React for the frontend.

## Step 1: Install Dependencies

Run the following commands to install necessary packages on your AWS EC2 instance:

sudo yum install python3-pip -y  
pip3 install fastapi uvicorn python-multipart numpy scikit-learn pandas PyMuPDF

## Step 2: Set Up Backend

Create a backend directory and navigate into it:

mkdir -p /home/ec2-user/backend  
cd /home/ec2-user/backend

Create and edit the main FastAPI script:

vim main.py

Copy and paste the following FastAPI backend code into main.py:

[Backend Code is included in the full document]

Start the FastAPI server:

uvicorn main:app --host 0.0.0.0 --port 8000 --reload

## Step 3: Open Port 8000 in AWS Security Group

Ensure that port 8000 is open in your AWS security group settings so that the FastAPI server can be accessed externally.

## Step 4: Set Up Frontend

Install Node.js and create a React app:

cd /home/ec2-user  
curl -o- https://raw.githubusercontent.com/nvm-sh/nvm/v0.39.4/install.sh | bash  
source ~/.bashrc  
nvm install --lts  
npx create-react-app frontend  
cd frontend  
npm install  
npm install axios

Edit the frontend React application:

vim src/App.jsx

Copy and paste the following React frontend code into App.jsx:

[Frontend Code is included in the full document]

## Step 5: Start Frontend Server

Run the following command to start the frontend:

cd /home/ec2-user/frontend  
npm start --host 0.0.0.0

## Step 6: Access the Application

Access the Resume Screener application in a web browser using:

http://<EC2-PUBLIC-IP>:5173